

HCCMD55	956895	133	blastx.2	catalase [Campylobacter jejuni]	emb CAA59444.1	94%	225	115
HKADF15	960658	135	blastx.2	(AF179370) insulin- like growth factor binding protein 5 protease [Rattus norvegicus]	gb AAD52683.1 AF1 79370_1	94% 70% 32%	424 113 9	1551 499 155
HOGES55	961337	136	blastx.2	proline-rich protein [Mus musculus]	gb AAA53048.1	31% 33% 33% 33% 33% 27%	515 515 645 809 1099 1099	1117 1117 1397 1117 1452 1557
HKZAJ14	961458	137	blastx.2	(AL133051) hypothetical protein [Homo sapiens]	emb CAB61378.1	100%	219	1028
HLHAE14	962362	138	blastx.2	unknown protein [Homo sapiens]	gb AAA88036.1	60% 38%	1969 1820	1805 1680
HBCJN16	965190	139	blastx.2	calcyphosine [Homo sapiens]	emb CAA66609.1	99%	38	346
HCGAF29	965372	140	blastx.2	(AF083217) WD repeat protein WDR3 [Homo sapiens]	gb AAD45865.1 AF0 83217_1	97% 27% 53% 34% 60% 60% 60% 46% 36% 53%	32 473 2270 2226 2269 2273 2272 2269 2226 2270	1660 940 2308 2312 2313 2317 2316 2307 2315 2314

HB1AB02	967807	142	blastx.2	(AK00069) unnamed protein product [Homo sapiens]	dbj BAA90924.1	47%	1600	1665
HOUCR01	968171	143	blastx.2	similar to D.melanogaster peroxidase(U11052) [Homo sapiens]	dbj BAA13219.1	33% 36% 30%	8 428 8	646 718 241
HDTIG18	968454	144	blastx.2	(AB017644) ubiquitin-conjugating enzyme E2 [Homo sapiens]	dbj BAA76544.1	100%	391	1011
HBLGD30	968949	145	blastx.2	preceruloplasmin (EC 1.16.3.1) [Homo sapiens]	gb AAA51976.1	100% 40% 41%	1 106 1183	2187 1512 2184
HFIHK04	969387	146	blastx.2	(AK00200) unnamed protein product [Homo sapiens]	dbj BAA91005.1	94%	306	151
HE8NQ16	970046	148	blastx.2	F20D12.3 gene product [Caenorhabditis elegans]	gb AAA81672.1	38% 36% 25% 25%	359 1259 2021 974	1099 1891 2653 1102
HOFMS34	973010	149	blastx	hPMSR6 [Homo sapiens]	gb AAA97460.1	59% 66%	324 552	536 605
HOFOB11	973505	150	blastx.2	15 KD SELENOPROTEIN PRECURSOR.	sp O60613 SE15_HUMAN	95%	18	503
HTLHN94	974667	151	blastx.2	(AB012955) KIP2 [Homo sapiens]	dbj BAA33584.1	99%	444	812
HLDRT31	975754	152	blastx.2	hepatocyte growth	gb AAA50165.1	90%	91	639

HWLHW8 6	975771	153	blastx.2	factor-like protein [Homo sapiens]			50%	100	579
				epithelial glycoprotein (EGP) precursor [Homo sapiens]	gb AAA35723.1		44%	100	579
							50%	346	558
HOFNM53	976051	154	blastx.2	(AL110276) hypothetical protein [Homo sapiens]	emb CAB53711.1		100%	245	1186
							37%	498	1094
HDPSE86	976207	155	blastx	(AF086713) rasGAP- activating-like protein [Homo sapiens]	gb AAD09006.1		83%	757	1311
							91%	1	420
							96%	508	774
							83%	401	511
							30%	361	450
							42%	1	42
HHFOE18	976216	156	blastx.2	(AL117664) hypothetical protein [Homo sapiens]	emb CAB56034.1		52%	376	1275
							35%	14	139
HHFNH27	976968	157	blastx.2	Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb CAA56869.1		98%	26	589
							100%	3	26
HMMBZ8 1	977264	158	blastx.2	alternatively spliced product using exon 13A [Homo sapiens]	gb AAB49034.1		52%	545	369
HSLGF32	977704	159	blastx.2	(AL133063) hypothetical protein [Homo sapiens]	emb CAB61387.1		52%	2	250
HODFU73	978812	161	blastx.2	myeloid ecotropic viral integration site-1b	gb AAA85509.1		94%	371	652

HNBUA49	978998	162	blastx.2	[Mus musculus] (AF085356) putative RNA helicase [Homo sapiens]	gb AAD40191.1	97% 38%	365 130	1282 183
HVVDU73	979346	163	blastx.2	ladinin [Homo sapiens]	gb AAB58817.1	99%	53	1603
HHESX72	979468	164	blastx.2	(AK001665) unnamed protein product [Homo sapiens]	dbj BAA91821.1	96%	202	480
HOCPY88	979547	165	blastx.2	(AF035299) similar to GAP binding protein p62do [Homo sapiens]	gb AAB88182.1	100%	136	939
HOGDC64	979666	166	blastx.2	kinase A anchor protein [Homo sapiens]	emb CAA66000.1	100% 40% 45%	236 1 40	769 165 204
HSIEA14	980139	167	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	72% 70% 68%	613 783 667	482 673 620
HSPSY43	980269	168	blastx.2	alphaII spectrin [Rattus norvegicus]	emb CAA62350.1	100%	937	1659
HSXBXH24	981029	169	blastx.2	(AF181645) BcDNA.GH12144 [Drosophila melanogaster]	gb AAD55431.1 AF1 81645_1	44% 36% 28% 26% 31% 22% 35% 23%	301 1207 1684 1702 1609 1711 1819 1867	1263 2148 2040 2067 1896 2061 1962 2157
HOFAE61	981108	170	blastx.2	predicted using Genefinder; Similarity to E.coli guanosine-3',	emb CAB05030.1	59% 71% 50%	173 5 727	430 88 822

HCFOF82	981272	171	blastx.2	1 [Caenorhabditis elegans] (AL133558) hypothetical protein [Homo sapiens]	emb CAB63713.1	98%	2	901
HOCMT79	981309	172	blastx.2	similar to yeast Sec6p, Swiss-Prot Accession Number P32844; 1 1 norvegicus]	gb AA85505.1	94% 96%	481 2	1413 481
HKAEI03	981319	173	blastx.2	Wiskott-Aldrich Syndrome Protein [Mus musculus]	gb AAC52556.1	35% 39% 40% 55% 34%	392 233 407 306 288	6 6 300 253 211
HOCPO31	981593	174	blastx.2	(AF015037) endooligopeptidase A related protein; EOPA related protein [Oryctolagus cuniculus]	gb AAB99905.1	79%	381	812
HAOTG88	981606	175	blastx.2	No definition line found [Escherichia coli]	gb AAC43132.1	100%	217	2
HVCAH21	981768	176	blastx.2	(AF044956) NADH:ubiquinone oxidoreductase B22 subunit [Homo sapiens]	gb AAD42057.1 AF0 44956_1	100%	80	616
HFPCCK56	981812	177	blastx.2	(AF099664) Cdc42 effector protein 4 [Homo sapiens]	gb AAD16299.1	88%	3	125

HAOSJ58	981859	178	blastx.2	(AJ271784) chromokinesin [Homo sapiens]	emb CAB75427.1	87%	24	482
HOPJT48	981862	179	blastx.2	(AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	95%	321	250
						91%	318	247
						95%	316	245
						100%	350	285
						100%	349	284
						100%	348	283
						100%	345	280
						100%	347	282
						100%	346	281
						100%	342	277
						100%	344	279
						100%	343	278
						100%	340	275
						100%	339	274
						100%	341	276
						100%	336	271
						100%	338	273
						100%	337	272
						100%	335	270
						100%	333	268
						100%	334	269
						100%	330	265
						100%	331	266
						100%	332	267
						100%	327	262
						100%	328	263
						100%	329	264

							100%	324	259
HCFAV61	981914	180	blastx.2	(AK000541) unnamed protein product [Homo sapiens]	dbj BAA91241.1		100%	325	260
HOVJY54	982032	182	blastx.2	similar to cuticle collagen [Caenorhabditis elegans]	emb CAA91932.1		91%	313	242
							88%	318	241
							84%	316	239
							64%	318	217
HE8MM52	982197	184	blastx.2	(AL023828) cDNA EST yk289g5.5 comes from this gene; cDNA EST 1 1 yk653f1.5 comes from this gene; cDNA EST EMBL:C07875 comes from th	emb CAA19455.1		48%	628	1137
							46%	121	552
HJBCC19	982465	185	blastx.2	(AK000516) unnamed protein product [Homo sapiens]	dbj BAA91222.1		99%	503	949
							90%	8	157
HODAA93	982618	186	blastx.2	(AJ224979) MTMR1 [Homo sapiens]	emb CAA12271.1		96%	63	737
HSPSI74	982764	187	blastx.2	L6 [Homo sapiens]	gb AAA36158.1		74%	698	790
HCEHZ42	983008	188	blastx.2	unknown [murine herpesvirus 68]	gb AAB66420.1		100%	100	705
							32%	2124	3170
							38%	1167	1451
							38%	1167	1451

							38%	1167	1451
							38%	1167	1451
							38%	1167	1451
							32%	2127	2414
							39%	2140	2304
							35%	94	375
							35%	94	375
							35%	94	375
							37%	116	334
							37%	116	334
							37%	116	334
							37%	116	334
							34%	620	817
							34%	620	817
							34%	620	817
							34%	620	817
							34%	620	817
							37%	7	135
							37%	7	135
							38%	1234	1422
							38%	1234	1422
							38%	1234	1422
HDPVU15	983592	189	blastx.2	replication factor C, 37- kDa subunit [Homo sapiens]	gb AAB09785.1		100%	72	686
							100%	685	954
							100%	1025	1138
							100%	1216	1308
HT5GC28	984008	190	blastx.2	alpha subunit; forms heterodimer with NC2 alpha/Dr1 [Homo sapiens]	emb CAA65358.1		60%	34	423
							58%	248	421

HDABW5 0	984168	191	blastx.2	t-complex polypeptide 1 (AA 1-556) [Homo sapiens]	emb CAA37064.1	100%	185	451
HAQBH11	985043	192	blastx.2	(AF243177) Xenopus RPA interacting protein alpha [Xenopus laevis]	emb CAB45690.1	42% 46% 46% 28% 35%	393 110 238 244 247	626 244 393 369 336
HMVAW4 2	985280	193	blastx.2	extensin-like protein [Zea mays]	emb CAA84230.1	28%	960	10
HAGDF03	985323	194	blastx.2	neuromedin U [Homo sapiens]	emb CAA53619.1	100%	169	690
HOPKI29	985401	195	blastx.2	(AF087135) F1FO-type ATPase subunit d [Homo sapiens]	gb AAC36338.1	100%	65	547
HAJCA11	985580	196	blastx.2	GTBP-ALT [Homo sapiens]	dbj BAA23673.1	98% 97%	394 2	1293 391
HWAHA1 1	986078	197	blastx.2	(AB031292) proteolipid protein 2 [Mus musculus]	dbj BAA83500.1	31%	134	511
HSAMI43	986158	198	blastx.2	(AF111423) chromosome condensation protein XCAP-G [Xenopus laevis]	gb AAD09819.1	54% 53%	14 14	1471 1387
HNFJH73	986165	199	blastx.2	erm [Homo sapiens]	emb CAA65246.1	100%	1	591
HNTCH03	986328	200	blastx.2	put. ORF [Homo sapiens]	emb CAA39297.1	48% 70%	103 651	363 680
HSUAA20	986744	201	blastx.2	replication protein A ₂	gb AAA36584.1	100%	2	1312

					70-kDa subunit [Homo sapiens]			100%	1315	1347
HSPAD08	986767	202	blastx.2	(AL031663) dJ461P17.6 (Major Epididymis-specific protein E4 1 1 sapiens]	emb CAB37641.1			100%	905	1054
HFKA32	987018	203	blastx.2	(AL121740) hypothetical protein [Homo sapiens]	emb CAB57330.1			76% 83%	256 540	1092 743
HHFLU49	987071	204	blastx.2	(AF068749) sphingosine kinase [Mus musculus]	gb AAC61698.1			46%	278	718
HOENX16	987112	205	blastx.2	helix-loop-helix protein [Homo sapiens]	emb CAA69255.1			100%	368	850
HTFOW71	987165	206	blastx.2	(AF121862) sorting nexin 13 [Homo sapiens]	gb AAD27835.1 AF121862_1			96% 88%	38 3	400 53
HTTAG03	987262	207	blastx.2	SPIN protein [Homo sapiens]	emb CAA75163.1			94% 47% 41% 44% 36% 33% 37% 61%	57 81 663 492 801 516 195 1228	1289 476 1238 857 1061 812 428 1278

HNNTNN89	987577	208	blastx.2	elongation factor 2 [Homo sapiens]	emb CAA35829.1	98%	110	547
HRADQ96	987636	209	blastx.2	(AF134726) NG23 [Homo sapiens]	gb AAD21821.1	77% 100%	543 2	713 115
HLDCJ16	987808	210	blastx.2	3-oxoacyl-[acyl-carrier- protein] reductase (EC 1.1.1.100). [Escherichia coli]	dbj BAA35901.1	96% 100%	303 6	398 29
HCOPH23	987900	211	blastx.2	nucleoporin-like protein [Homo sapiens]	emb CAA61667.1	39%	159	761
HEEAQ78	988159	212	blastx.2	TBX2 [Homo sapiens]	gb AAA73861.1	94%	289	447
HOFNY16	988363	213	blastx.2	(AL110239) hypothetical protein [Homo sapiens]	emb CAB53690.1	99% 100%	164 1 12 206 260	475 165 191 394 403
HSLCX45	988441	214	blastx.2	(AB006572) RPB5 meidating protein [Homo sapiens]	dbj BAA34781.1	98%	242 144	853 236
HLMB09	988499	215	blastx.2	cDNA EST yk575f9.3 comes from this gene [Caenorhabditis elegans]	emb CAA94859.1	98%	106	1404
HOVEF60	988526	216	blastx.2	envelope protein [Homo sapiens]	gb AAA88027.1	39% 34%	270 496	491 591
HOGDR72	988536	217	blastx.2	RNA polymerase II transcription factor SIII	gb AAA75522.1	75% 36% 100%	377 11 62	598 298 415

HOCMF20	988556	218	blastx.2	p18 subunit [Homo sapiens]	emb CAA71143.1	99%	1	366
HAMHH2 6	988737	219	blastx.2	high mobility group protein 2a [Homo sapiens]	gb AAB40147.1	98%	429	728
HHFOX44	988904	220	blastx.2	MHC Class I region proline rich protein [Homo sapiens]	emb CAA00862.1	99%	153	587
				binding protein [Homo sapiens]		52%	308	907
						56%	804	956
						28%	67	222
						36%	88	318
						31%	637	789
						45%	48	107
HPWDE54	989029	221	blastx.2	(AJ252060) TRABID protein [Homo sapiens]	emb CAB64449.1	97%	1	2127
HNOAX46	989183	222	blastx.2	Berg36 [Homo sapiens]	emb CAA67781.1	100%	49	789
HCQCB28	989280	223	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	60%	471	292
						77%	301	167
						57%	1148	1107
HOOJB32	989321	224	blastx.2	(AB007619) EBAG9 [Homo sapiens]	dbj BAA22572.1	100%	535	1173
HMWJJ35	989323	225	blastx.2	Leu2 [Homo sapiens]	emb CAA75516.1	93%	312	410
						100%	551	607
						72%	260	346
HHFLA95	989396	226	blastx.2	(AB002533) Qip1 [Homo sapiens]	dbj BAA19546.1	92%	120	1178
						24%	279	974
						47%	1	216
						35%	5	121

HSPSH36	989607	227	blastx.2	transcription factor ILF [Homo sapiens]	emb CAA43200.1	94% 100%	77 250	247 282
HAAAA25	989952	228	blastx.2	p67 myc protein [Homo sapiens]	dbj BAA01374.2	100%	100	660
HTEMJ16	990060	229	blastx.2	(AF151075) HSPC241 [Homo sapiens]	gb AAF36161.1 AF1 51075_1	97%	361	618
HWLAB90	990146	230	blastx.2	(AF067817) VAV-3 protein [Homo sapiens]	gb AAC79695.1	98% 89%	2 622	652 813
HOSED43	990184	231	blastx.2	(AK001851) unnamed protein product [Homo sapiens]	dbj BAA91941.1	100%	2	790
HNODF50	990254	232	blastx.2	(AF222742) synaptic glycoprotein SC2 [Homo sapiens]	gb AAF32373.1 AF2 22742_1	100% 93% 100%	616 187 116	1155 528 181
HLWBV17	990255	233	blastx.2	(AF222742) synaptic glycoprotein SC2 [Homo sapiens]	gb AAF32373.1 AF2 22742_1	100% 78% 57%	282 123 26	542 206 88
HOCQH66	990435	234	blastx.2	collagen type VI, alpha 3 chain [Homo sapiens]	emb CAA36267.1	98% 43% 40% 45% 46% 44% 47% 48% 45% 46% 43% 44%	43 40 40 43 49 43 46 46 46 46 49 49 43	2745 330 330 327 330 327 330 330 330 330 339 327 327

HOGDC67	990546		235	blastx.2	pyrroline-5-carboxylate reductase [Homo sapiens]	gb AAA36407.1	48% 41% 41% 41% 43% 26% 26% 42%	85 46 49 46 49 391 1117 531	330 327 327 333 327 960 1587 647
HCDBO02	990609		236	blastx.2	TIP120 [Rattus norvegicus]	dbj BAA13432.1	97% 66%	10 131	3258 202
HODGN92	990611		237	blastx.2	coded for by C. elegans cDNA yk38h3.5; coded for by C. elegans 11 [Caenorhabditis elegans]	gb AAA83581.1	37%	107	499
HPDRP30	990751		238	blastx.2	(AL122073) hypothetical protein [Homo sapiens]	emb CAB59248.1	99%	1436	2098
HBXFN09	990769		239	blastx.2	ORF 3 [Homo sapiens]	gb AAA58464.1	42% 71%	65 43	226 63
HDTBO75	990913		240	blastx.2	(AF065391) ZIS1 [Homo sapiens]	gb AAD09746.1	100% 39% 45% 32% 36% 33% 21%	241 4 13 1 1 13 4	324 72 72 75 72 75 72

HELGN26	991014	241	blastx.2	(AF123653) FEZ1 [Homo sapiens]	gb AAD23834.1 AF1 23653_1	47%	192	902
						52%	32	181
						38%	171	470
HODCU15	991048	242	blastx.2	(AF213822) hypothetical protein [Zymomonas mobilis]	gb AAF23786.1 AF2 13822_1	42%	1104	1550
						56%	1552	1710
						27%	1747	1929
HOGDI51	991268	243	blastx.2	(AF007872) torsinB [Homo sapiens]	gb AAC51733.1	100%	238	492
						92%	607	873
						69%	803	940
HLWAF02	991516	244	blastx.2	(AK001371) unnamed protein product [Homo sapiens]	dbj BAA91655.1	100%	192	449
HRKPA16	991654	245	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	76%	263	24
HPDQX94	991761	246	blastx.2	microsomal glutathione S-transferase 2 [Homo sapiens]	gb AAC51768.1	100%	210	650
HEAAY09	992678	247	blastx.2	TSC-22 [Homo sapiens]	dbj BAA07598.1	96%	40	333
HPDRH78	992780	248	blastx.2	(AK000474) unnamed protein product [Homo sapiens]	dbj BAA91189.1	100%	598	903
						79%	933	1079
HODFO57	992973	250	blastx.2	(AF176524) F-box protein FBL10 [Mus musculus]	gb AAF09133.1	67%	8	811
HOCpz44	993380	251	blastx.2	(AF151075) HSPC241 [Homo sapiens]	gb AAF36161.1 AF1 51075_1	99%	157	540
HPAMU38	993403	252	blastx.2	cDNA EST	emb CAB04720.1	48%	111	407

					yk269g12.5 comes from this gene; cDNA EST EMBL:D27364.1 comes from this gene; cDNA EST EMBL:D36272 comes fr				30% 37%	450 20	803 91
HNGGK47	993602	253	blastx.2		(AF126163) HHLA3 protein [Homo sapiens]	gb AAD33288.1 AF126163.1			78%	277	372
HODGN51	993754	254	blastx.2		putative p150 [Homo sapiens]	gb AAC51261.1			64% 65% 48% 69%	124 77 3 545	549 205 134 613
HODCT60	993806	255	blastx.2		(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1			56% 50%	239 624	382 671
HAQBV81	993918	256	blastx.2		putative [Rattus norvegicus]	emb CAA52297.1			43%	3	695
HDTGF49	993931	257	blastx.2		(AK002081) unnamed protein product [Homo sapiens]	dbj BAA92074.1			87%	1073	1531
HOGBN62	994134	258	blastx.2		(AF132952) CGI-18 protein [Homo sapiens]	gb AAD27727.1 AF132952_1			95% 95% 43%	155 12 421	295 155 558
HSKGR42	994234	259	blastx.2		(AK000741) unnamed protein product [Homo sapiens]	dbj BAA91354.1			73% 96% 56% 51% 34% 28%	147 1 412 413 291 273	536 153 528 499 404 377

							28%	316	468
HOEBQ85	994356	260	blastx.2	(AL117435) hypothetical protein [Homo sapiens]	emb CAB55923.1		32%	291	437
HOPJG01	994536	261	blastx.2	creatine kinase B [Homo sapiens]	emb CAA33389.1		97%	3	362
HKBAK06	994596	262	blastx.2	Cks1 protein homologue [Homo sapiens]	emb CAA38702.1		100%	1	1134
HKGCN61	994664	263	blastx.2	NifU-like protein [Homo sapiens]	gb AAC50885.1		100%	231 67	410 144
HFOYI37	994776	265	blastx.2	ribosomal protein [Homo sapiens]	dbj BAA03400.1		100%	85	513
HOFNL18	994874	266	blastx.2	(AL031432) dJ465N24.1 (PUTATIVE novel protein similar to predicted yeast and worm proteins) [Homo sapiens]	emb CAB37991.1		84%	43	339
HOFNT57	994954	267	blastx.2	phosphate cyclase [Homo sapiens]	emb CAA72364.1		98%	273	1157
HCBMT45	994993	268	blastx.2	lin-10 protein homolog [Rattus norvegicus]	gb AAB51383.1		93% 96%	124 46	270 1311

HATDZ56	995200	269	blastx.2	(AL031668) dJ64K7.2 (eukaryotic translation initiation factor 2, subunit 2 (beta, 38kD)) [Homo sapiens]	emb CAB43741.1	100%	156	1154
HOCQI44	995229	270	blastx.2	(AL050348) dJ447F3.2 (ubiquitin-conjugating enzyme E2 H10) [Homo sapiens]	emb CAB66118.1	92%	8	520
HNOIG43	995562	271	blastx.2	alpha 4 protein [Homo sapiens]	emb CAA70119.1	99%	73	981
HSPSB95	995590	272	blastx.2	proteasome subunit HsN3 [Homo sapiens]	dbj BAA05647.1	99%	47	838
HCORG29	995806	273	blastx.2	SRp30c [Homo sapiens]	gb AAA93069.1	100%	100	762
HCRNO02	995894	274	blastx.2	N8 GENE PRODUCT LONG ISOFORM, N8L PROTEIN=D52 1 HK4A1	sp G1488414 G14884 14	74% 63%	33 2	149 34
HCB0179	996247	275	blastx.2	(AK000857) unnamed protein product [Homo sapiens]	dbj BAA91400.1	80% 100%	99 419	506 637
HVCAB73	996337	276	blastx.2	NF45 protein [Homo sapiens]	gb AAA20993.1	94% 70%	90 1175	1307 1297
HSDJH04	996619	277	blastx.2	RNA polymerase II subunit [Homo sapiens]	gb AAA91459.1	100%	219	419
HSON18	996804	278	blastx.2	(AB030654) AP-4 clathrin adaptor-related complex sigma4 subunit [Homo sapiens]	dbj BAA82970.1	100%	1	222

HHEHF49	996874	279	blastx.2	L-lactate permease [Escherichia coli]	gb AAA03583.1	91%	770	222
HCHCF36	996903	280	blastx.2	rac protein kinase-beta [Homo sapiens]	gb AAA36585.1	96%	1	456
HAHCK58	997127	281	blastx.2	(AK001138) unnamed protein product [Homo sapiens]	dbj BAA91517.1	98%	1	228
HETIJ06	997165	282	blastx.2	(AF152097) CGI-05 protein [Homo sapiens]	gb AAD34147.1 AF1 52097_1	97%	218	352
HAPOE30	997595	283	blastx.2	nuclear protein SA-1 [Homo sapiens]	emb CAA99731.1	100% 88%	244 11	759 244
HRGDC33	997862	284	blastx.2	C13F10.7 gene product [Caenorhabditis elegans]	gb AAC47967.1	34% 44%	301 301	735 648
HMTMB9 1	997873	285	blastx.2	(AC004838) U1 small ribonucleoprotein 1SNRP homolog; match to PID:g4050087 [Homo sapiens]	gb AAF19255.1 AC0 04858_3	100% 41%	1037 487	1174 555
HFAAD07	998059	286	blastx.2	(AJ132948) rfg7 protein [Homo sapiens]	emb CAB55313.1	97% 97%	274 32	957 298
HE8TG67	998517	287	blastx.2	product is related to clathrin-associated protein. [Homo sapiens]	dbj BAA09762.1	97% 97%	1226 502	1360 618
HACNC39	998533	288	blastx.2	weak similarity to Arabidopsis thaliana ubiquitin-like protein 8 [Caenorhabditis elegans]	gb AAB42266.1	80%	162	380

HCOQP78	998901	289	blastx.2	(AB008927) neuropsin type2 [Homo sapiens]	dbj BAA82666.1	100%	75	989
HCGMA67	998905	290	blastx.2	rab8 [Canis familiaris]	emb CAB56776.1	100%	47	664
HSKHK19	998968	291	blastx.2	(AC004890) similar to HUB1; similar to BAA24380 (PID:g2789430) [Homo sapiens]	gb AAD45825.1 AC004890_2	98%	2	466
						38%	566	721
						54%	1095	1160
						70%	558	587
HAGGR59	999124	292	blastx.2	histone H1-I [Volvox carteri]	gb AAA74723.1	36%	270	596
HOPKS83	999148	293	blastx.2	(AF026124) schwannoma-associated protein [Mus musculus]	gb AAC73069.1	93%	425	1894
HE8CY70	999157	294	blastx.2	SEP PROTEIN (FRAGMENT).	sp Q15352 Q15352	100%	691	1368
						92%	32	691
						66%	3	128
						48%	635	706
HPCTI53	999243	295	blastx.2	(AJ250562) tetraspanin protein [Homo sapiens]	emb CAB65594.1	88%	34	546
						100%	474	779
HOPKN50	999313	296	blastx.2	(AF017790) retinoblastoma-associated protein HEC [Homo sapiens]	gb AAB80726.1	95%	152	1702
HAPAI17	999778	297	blastx.2	(AK001832) unnamed protein product [Homo sapiens]	dbj BAA91931.1	97%	2	115
HHAUV59	999808	298	blastx.2	p116Rip [Mus musculus]	gb AAB18198.1	79%	95	1903
						67%	547	801
						21%	1454	1669

HTXLL31	1000315	299	blastx.2	(AK001770) unnamed protein product [Homo sapiens]	dbj BAA91897.1	36%	663	992
						27%	666	1379
						26%	4	645
						39%	481	621
HDPUH64	1000339	300	blastx.2	CRA protein [Drosophila melanogaster]	emb CAA76938.1	42%	8	598
						66%	525	692
						65%	475	534
HTTHS93	1000424	301	blastx.2	(AL117183) conserved hypothetical protein [Schizosaccharomyces pombe]	emb CAB54870.1	25%	55	720
						36%	755	994
HMVCG79	1000582	302	blastx.2	(AJ387747) sialin [Homo sapiens]	emb CAB62540.1	100%	3	854
HODHK20	1000669	303	blastx.2	(AF176555) A-kinase anchoring protein 220 [Homo sapiens]	gb AAF07045.1 AF176555_1	94%	76	627
HCHMO53	1000875	304	blastx.2	(AK000462) unnamed protein product [Homo sapiens]	dbj BAA91181.1	41%	296	556
HFKKKG84	1001066	305	blastx.2	(AF047002) transcriptional coactivator ALY [Homo sapiens]	gb AAD09608.1	98%	1	666
HOFMT20	1001333	306	blastx.2	(AK000541) unnamed protein product [Homo sapiens]	dbj BAA91241.1	48%	40	237
HPAMB04	1001695	307	blastx.2	17-kDa protein [Homo sapiens]	gb AAA36038.1	99%	127	621
HODEK48	1001901	308	blastx.2	pol [porcine endogenous retrovirus]	emb CAA76582.1	41%	398	721
						33%	25	423

HVVCB28	1001954	309	blastx.2	S19 ribosomal protein [Homo sapiens]	gb AAA89070.1	100%	373	807
HCOOS01	1002071	310	blastx.2	proliferation associated gene (pag) [Homo sapiens]	emb CAA48137.1	100%	105	701
HDACA35	1002096	311	blastx.2	(AK001496) unnamed protein product [Homo sapiens]	dbj BAA91724.1	73%	23	652
HOVDG59	1002328	312	blastx.2	(AK001610) unnamed protein product [Homo sapiens]	dbj BAA91787.1	100% 28%	13 40	639 588
HTJAD78	1002459	313	blastx.2	immunoglobulin gamma-2 heavy chain [Homo sapiens]	emb CAB58438.1	98%	64	1041
HCDCF69	1002468	314	blastx.2	lysyl hydroxylase [Homo sapiens]	gb AAA60116.1	98%	353	508
HPTTW90	1002479	315	blastx.2	Huntington's Disease (HD) gene [Homo sapiens]	emb CAA93701.1	99%	3	356
HSUBG36	1002492	316	blastx.2	snRNP E protein (AA 1-92) [Homo sapiens]	emb CAA31007.1	100%	67	342
HODFU72	1002527	317	blastx.2	(AB022660) SET- binding protein (SEB) [Homo sapiens]	dbj BAA82444.1	32%	57	689
HCNSF57	1002545	318	blastx.2	immunoglobulin lambda light chain [Homo sapiens]	emb CAA40940.1	96%	134	826
HODJU13	1002546	319	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	85%	2	106

HODIL25	1002551	320	blastx.2	nuclear protein, NP220 [Homo sapiens]	dbj BAA11748.1	99%	207	1556
HUVHS56	1002563	321	blastx.2	(AF097441) phenylalanine-tRNA synthetase [Homo sapiens]	gb AAC83802.1	100%	174	755
HPMIQ18	1002565	322	blastx.2	unnamed protein product [unidentified]	emb CAB69299.1	91% 53%	407 209	823 247
HLHCI46	1002591	323	blastx.2	folate-binding protein precursor [Homo sapiens]	gb AAA35822.1	100%	153	923
HAOSD18	1002607	324	blastx.2	homologue to elongation factor 1-gamma from A.salina [Homo sapiens]	emb CAA45089.1	100%	98	1408
HACNG47	1002610	325	blastx.2	ribosomal protein L37a [Homo sapiens]	gb AAA60280.1	100%	86	361
HOPJX95	1002729	326	blastx.2	RPS16 [Homo sapiens]	gb AAA60583.1	100%	244	681
HSCLR05	1002807	327	blastx.2	HKR-T1 [Homo sapiens]	gb AAB24264.2	58% 42% 51% 41%	3 3 3 591	176 281 215 659
HVVAO74	1002811	328	blastx.2	clathrin light-chain A [Homo sapiens]	gb AAA59505.1	100%	178	831
HVVVK18	1003155	330	blastx.2	proteasome subunit HsC7-I [Homo sapiens]	dbj BAA05646.1	100%	323	925
HSCLM55	1003224	332	blastx.2	(AC004983) similar to PID:g3877944 [Homo sapiens]	gb AAD15546.1	100%	28	768

HETJU23	1003706	333	blastx.2	(AL133630) hypothetical protein [Homo sapiens]	emb CAB63754.1	99% 99% 73% 100% 28% 26% 35%	881 504 64 373 878 1121 343	1477 881 513 507 1084 1327 459
HNOKB73	1004480	334	blastx.2	(AF026692) frpHE [Homo sapiens]	gb AAC04617.1	93%	18	515
HODFB06	1004583	335	blastx.2	(AB012223) ORF2 [Canis familiaris]	dbj BAA25253.1	41% 51% 63% 51% 70%	362 3 135 265 200	760 143 191 360 259
HODIA76	1004619	336	blastx.2	(AF113685) PRO0974 [Homo sapiens]	gb AAF29584.1 AF1 13685 1	56% 38%	171 277	293 453
HODJY60	1004625	337	blastx.2	putative [Homo sapiens]	gb AAC37567.1	100%	141	683
HODEF10	1004627	338	blastx.2	(AB005878) BYJ15 [Nicotiana tabacum]	dbj BAA21615.1	69%	10	135
HODFB03	1004631	339	blastx.2	DNA primase (p58 subunit) [Homo sapiens]	emb CAA52378.1	90%	1	789
HPMLN08	1004632	340	blastx.2	(AF027728) kinesin- related protein [Xenopus laevis]	gb AAC60300.1	25% 26% 24% 23%	518 135 524 524	1165 533 1051 1060
HODEH08	1004633	341	blastx.2	(AK001410) unnamed protein product [Homo sapiens]	dbj BAA91675.1	87%	22	369

HEGBF25	1004635	342	blastx.2	(AF069736) PCAF associated factor 65 beta [Homo sapiens]	gb AAC39906.1	98%	165	758
HODJB51	1004643	343	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	52%	405	142
HODEC38	1004648	344	blastx.2	(AJ010089) GANP protein [Homo sapiens]	emb CAB52687.1	97% 52% 62% 87%	68 1993 2055 2030	208 2175 2150 2053
HODIQ24	1004660	345	blastx.2	(AK001892) unnamed protein product [Homo sapiens]	dbj BAA91965.1	100%	3	236
HVVDD56	1004887	346	blastx.2	gpStaf50 [Homo sapiens]	emb CAA57684.1	97% 66%	435 1204	1238 1245
HTHDV01	1004950	347	blastx.2	c-fos protein [Homo sapiens]	gb AAA52471.1	100%	153	1292
HVVDJ95	1005153	348	blastx.2	Ral guanine nucleotide dissociation stimulator [Homo sapiens]	gb AAA52360.1	80%	185	400
HODIY29	1005236	349	blastx.2	DNA-binding protein 5 - human	pir S26650 S26650	97% 89% 57% 59% 53% 52% 58% 48% 43% 65%	1 13 1 4 19 4 4 4 1 4	963 963 453 453 453 444 408 453 453 276

HOELP29	1005359	350	blastx.2	uridine kinase [Mus musculus]	gb AAB50568.1	41%	1	444
HWLFG04	1005384	351	blastx.2	tax1-binding protein TXBP151 [Homo sapiens]	gb AAA75595.2	71%	25	441
HYAAC49	1005511	352	blastx.2	(AF001628) interactor protein AbiBP4 [Homo sapiens]	gb AAD00897.1	100%	309	1013
HCOOA71	1005843	353	blastx.2	nuclear autoantigen fo 14 kDa [Homo sapiens]	emb CAB09660.1	97%	2	1015
HOUFB45	1005974	354	blastx.2	(AF072441) calcineurin binding protein cabin 1 [Homo sapiens]	gb AAD40846.1 AF072441_1	93%	107	688
HUSJ14	1006018	355	blastx.2	(AK001676) unnamed protein product [Homo sapiens]	dbj BAA91829.1	98%	107	727
HMCDB21	1006055	356	blastx.2	alpha1A-voltage-dependent calcium channel [Homo sapiens]	gb AAB49678.1	33%	155	688
HSDEY08	1006142	357	blastx.2	SWI/SNF complex 60 KDa subunit [Homo sapiens]	gb AAC50697.1	88%	58	111
						70%	690	749
						100%	717	737
						100%	720	740
						87%	717	740
						76%	68	205
						98%	2	403
						99%	411	2081
						98%	40	381
						54%	377	448
						100%	435	509
						92%	573	1037
						80%	136	603

[illegible]

HTRAA05	1006512	365	blastx.2	heat shock protein [Drosophila melanogaster]	emb CAA30276.1	60% 55% 49% 28%	631 6 628 459	840 221 840 614
HMTAL96	1006635	366	blastx.2	ras-like protein [Homo sapiens]	gb AAA36547.1	98%	90	515
HDTJP21	1006858	367	blastx.2	(AF090942) PRO0657 [Homo sapiens]	gb AAF24054.1 AF0 90942_1	67% 73%	17 126	136 215
HISEQ81	1006943	368	blastx.2	(AF009668) polyprotein [multiple sclerosis associated retrovirus]	gb AAB66528.1	83% 70% 87%	247 435 514	17 235 395
HODFH02	1006953	369	blastx.2	(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1	74% 52%	346 426	438 488
HOCPP18	1007230	370	blastx.2	(AF150100) small zinc finger-like protein [Homo sapiens]	gb AAD40006.1 AF1 50100_1	100%	305	571
HODFP91	1007941	371	blastx.2	SpZ12-1 [Strongylocentrotus purpuratus]	gb AAA85705.1	27%	69	806
H6EDU06	1007976	372	blastx.2	(AF151894) CGI-136 protein [Homo sapiens]	gb AAD34131.1 AF1 51894_1	99%	75	449
HPCRD26	1008013	373	blastx.2	predicted using Genefinder; Similarity to Yeast mitochondrial 1 1 yk432a4.3 comes	emb CAB02879.1	35% 44%	423 1220	1229 1294

					from this gene; cDNA EST yk432a4					
HSIEH63	1008027	374	blastx.2		(AF007791) secreted cement gland protein XAG-2 homolog [Homo sapiens]	gb AAC77358.1	65%	87	554	
HPASD51	1008071	375	blastx.2		PDI (E.C.5.3.4.1) [Bos taurus]	gb AAA30690.1	33%	81	752	
HCOQH27	1008154	376	blastx.2		IEF SSP 9502 [Homo sapiens]	gb AAA65201.1	100%	131	1315	
HCOPZ14	1008179	378	blastx.2		guanylate kinase [Homo sapiens]	gb AAC37598.1	84%	889	1023	
HODEC78	1008299	379	blastx.2		bicaudal-D [Homo sapiens]	gb AAB94805.1	94% 97% 40% 72% 20% 35% 21% 25% 39%	379 1203 319 1351 328 1191 328 856 328	1230 1343 744 1470 1188 1343 792 1056 396	
HODEF29	1008304	380	blastx.2		(AB005878) BYJ15 [Nicotiana tabacum]	dbj BAA21615.1	80% 22%	38 202	133 330	
HODEF78	1008314	382	blastx.2		IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	93%	3	101	
HODEL83	1008324	383	blastx.2		pol gene protein; Xxx [Homo sapiens]	gb AAA88026.1	76%	132	407	
HHPHSH76	1008325	384	blastx.2		(AF019386) heparan sulfate 3-O- sulfotransferase-1	gb AAB84388.1	100%	286	1206	

HBGBE52	1008326	385	blastx.2	precursor [Homo sapiens] T2 [Mus musculus]	emb CAA48048.1	29% 33%	782 661	408 407
HBQAB30	1008327	386	blastx.2	alternatively spliced [Homo sapiens]	gb AAA35654.1	93%	24	737
HLHCB31	1008332	387	blastx.2	matrix metalloproteinase, MT2MMP [Homo sapiens]	dbj BAA13071.1	97%	1	558
HPFDV51	1008335	388	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	66% 69%	62 3	217 71
HODEG13	1008337	390	blastx.2	unknown protein [Homo sapiens]	gb AAA88038.1	65% 66% 67%	2 183 341	214 341 478
HHPFK16	1008345	391	blastx.2	Kruppel-related DNA- binding protein [Homo sapiens]	gb AAA52689.1	79% 65%	166 387	405 470
HARAL81	1008349	392	blastx.2	(AF090894) PRO0113 [Homo sapiens]	gb AAF24018.1 AF090894 1	55% 55%	217 323	104 216
HFTAU42	1008350	393	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	59% 55% 54%	1282 1115 1113	1106 990 1051
HETDA81	1008358	394	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	88% 42%	3 221	110 262

HODEI92	1008359	395	blastx.2	(AF062006) orphan G protein-coupled receptor HG38 [Homo sapiens]	gb AAC28019.1	45%	1	306
HODEG86	1008379	397	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	55% 51%	236 424	400 546
HODFA57	1008396	398	blastx.2	retrovirus-related polypolyprotein pseudogene - human 1	pir A26718 A26718	36% 58%	102 17	596 67
HODFB31	1008401	399	blastx.2	(AL021768) ATP binding protein-like [Arabidopsis thaliana]	emb CAA16931.1	52%	1	261
HTEMP79	1008406	400	blastx.2	(AJ223782) CDC10 [Mus musculus]	emb CAA11547.1	95% 51% 94%	374 136 625	628 375 678
HODEI59	1008423	401	blastx.2	(AJ237734) ribophorin II [Homo sapiens]	emb CAB54801.1	100% 100% 97% 39% 30%	296 1404 1270 1876 1145	1273 1859 1404 1959 1279
HODEF94	1008429	402	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	100%	2	85
HPFCZ53	1008445	403	blastx.2	(AF176818) transcription factor AP-2 [Silurana tropicalis]	gb AAD53289.1 AF176818_1	79% 93%	296 3	769 296
HWACN7 1	1008764	404	blastx.2	(AF105261) natural killer cell receptor 2B4 [Homo sapiens]	gb AAD32538.1 AF105261_1	100%	174	1268
HOFMU69	1009017	405	blastx.2	(AF077038) unc-50	gb AAD27771.1 AF0	97%	375	1151

					related protein homolog [Homo sapiens]	77038_1			
HETBR71	1009343	407	blastx.2		(AL049610) dJ1055C14.1 (transcription elongation factor A (SII)-like 1) [Homo sapiens]	emb CAB55700.1	99%	182	658
HE2ES17	1009349	408	blastx.2		CDV-1R protein [Mus musculus]	emb CAA71519.1	89%	3	914
HELHM06	1009362	409	blastx.2		pre-mRNA splicing factor [Homo sapiens]	gb AAA36649.1	85%	56	349
HE2ES61	1009388	411	blastx.2		(AC005034) gc-rich sequence dna-binding factor [Homo sapiens]	gb AAC82536.1	100%	555	427
HE2SO43	1009398	412	blastx.2		protein Htf9C [Mus musculus]	emb CAA39515.1	74%	73	390
HLHCI07	1009403	413	blastx.2		(AL031985) dJ228H13.1 (similar to Ribosomal protein L21e) 1	emb CAB46381.1	75%	127	8
HTTBR65	1009414	414	blastx.2		E1A-F [Homo sapiens]	dbj BAA02234.1	100%	55	231
HPFCV71	1009453	415	blastx.2		(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1	60%	449	622
HCABR46	1009479	416	blastx.2		BST-2 [Homo sapiens]	dbj BAA05679.1	88%	127	423
HCRCB80	1009482	417	blastx.2		OTK27 [Homo sapiens]	dbj BAA23363.1	100%	96	479
HPMLW78	1009833	418	blastx.2		E2A/PRL fusion	gb AAA36764.1	99%	1	606

HODIX27	1009854	420	blastx.2	protein [Homo sapiens] (AJ005324) glutamate permease [synthetic construct]	emb CAA06471.1	90%	1	123
HODJV85	1009857	421	blastx.2	ribosomal protein [Homo sapiens]	gb AAA36589.1	77% 35%	366 505	205 416
HOOIO38	1009918	422	blastx.2	ribosomal protein L14 [Homo sapiens]	dbj BAA13443.1	98%	1	603
HAOSI69	1009949	423	blastx.2	bcl-1 [Homo sapiens]	gb AAA58392.1	100%	271	1155
HSDIY67	1010157	424	blastx.2	hypoxanthine (guanine) phosphoribosyltransfer ase [Cricetulus longicaudatus]	emb CAA42198.1	69%	60	689
HSDZM65	1010299	425	blastx.2	(AJ010953) putative Ca ²⁺ -transporting ATPase [Homo sapiens]	emb CAA09425.1	100%	2	337
HPDOC39	1010400	426	blastx.2	(AB009282) cytochrome b5 [Homo sapiens]	dbj BAA23735.1	99%	171	608
HE2PS15	1010525	427	blastx.2	(AF054175) mitochondrial proteolipid 68MP homolog [Homo sapiens]	gb AAC39909.1	100%	63	236
HTTKH22	1010596	428	blastx.2	weak similarity to	emb CAA86663.1	38%	887	1435

					microtubule associated proteins; cDNA EST 1 1 EMBL:D37339 comes from this gene; cDNA EST EMBL:D6742				32% 27%	1442 692	1561 949
HNOJG33	1010698	429	blastx.2	SAS [Homo sapiens]	gb AAC39524.1				98% 68% 100%	590 1203 1246	1207 1274 1278
HPDVK48	1011090	430	blastx.2	AZ-1 [Mus musculus]	dbj BAA19002.1				82% 77% 82% 70% 23% 23% 34% 25% 29% 26% 27% 27% 31% 19% 27% 27% 30% 26% 27% 22% 33%	236 1100 735 1 200 1100 753 203 1148 1160 284 1091 747 302 750 738 747 239 660 747 750	730 1630 1100 243 775 1603 1103 769 1612 1612 775 1600 1091 709 1085 1094 1097 727 1088 1085 1007

HNORJ10	1011186	431	blastx.2	hypoxia-inducible factor 1 alpha [Homo sapiens]			20%	780	1331
							23%	735	1061
							25%	305	691
							22%	750	1106
							27%	413	730
							28%	413	730
							42%	151	249
							32%	747	938
							31%	106	246
							23%	401	673
							25%	533	706
							24%	97	273
HNORJ10	1011186	431	blastx.2	hypoxia-inducible factor 1 alpha [Homo sapiens]		gb AAC50152.1	99%	30	1628
							54%	120	152
HPDRG92	1011209	432	blastx.2	2-oxoglutarate dehydrogenase precursor [Homo sapiens]		dbj BAA01393.1	82%	7	234
							73%	237	326
							35%	1	60
HOFMQ81	1011303	433	blastx.2	unnamed protein product [Bos taurus]		emb CAA71771.1	66%	152	541
							66%	97	141
HOFNF27	1011315	434	blastx.2	cox sackie and adenovirus receptor protein [Homo sapiens]		emb CAA68868.1	89%	60	623
HOFND52	1011316	435	blastx.2	interferon alpha /beta receptor [Homo sapiens]		emb CAA61914.1	43%	240	533
							44%	59	205
HOFNL96	1011321	436	blastx.2	GM2-activator protein [Homo sapiens]		emb CAA43408.1	49%	72	551
							43%	28	123
HOFNF53	1011332	437	blastx.2	(AF039584) decay		gb AAC77439.1	46%	62	883

					accelerating factor soluble-form precursor; CD55 [Rattus norvegicus]			41%	1155	1706
HOFMU61	1011360	438	blastx.2		(AJ009698) embigin protein [Rattus norvegicus]	emb CAA08796.1		60%	377	1249
HOFOF35	1011499	439	blastx.2		(AF061738) leucine aminopeptidase [Homo sapiens]	gb AAD17527.1		86%	88	582
								88%	602	736
								82%	20	88
								25%	52	450
								90%	576	605
HULFJ37	1011537	440	blastx.2		midkine [Homo sapiens]	dbj BAA01457.1		100%	124	552
HOFME75	1011607	441	blastx.2		collagen binding protein 2 [Homo sapiens]	dbj BAA11829.1		93%	224	970
HOPKO74	1011608	442	blastx.2		collagen binding protein 2 [Homo sapiens]	dbj BAA11829.1		99%	229	1482
HCBBA51	1011755	443	blastx.2		(AF077045) ATP synthase epsilon chain [Homo sapiens]	gb AAD27778.1 AF0 77045_1		100%	114	266
HDHEB13	1011773	444	blastx.2		type X collagen [Bos taurus]	emb CAA37624.1		42%	202	942
								42%	235	942
								52%	229	534
								49%	229	537
								50%	202	537
								49%	232	549
								47%	235	537

								45%	229	534
								45%	229	549
								49%	235	537
								49%	232	537
								45%	199	534
								48%	211	537
								49%	235	537
								49%	235	534
								47%	226	537
								45%	235	534
								44%	226	534
								42%	202	534
								35%	235	750
								45%	235	537
								34%	235	750
								42%	232	534
								40%	202	549
								48%	283	537
								32%	53	277
								50%	50	130
								31%	47	277
HDTMG36	1011821	445	blastx.2	(AJ271158) DAPIIT protein [Rattus norvegicus]			emb CAB71156.1	91%	75	248
HVVCJ38	1011830	446	blastx.2	CLC-7 chloride channel protein [Homo sapiens]			emb CAA91556.1	100%	20	817
HPAMY22	1011840	447	blastx.2	scleraxis=basic helix- loop-helix transcription factor [mice, embryos,			gb AAB34266.1	79%	4	180

				Peptide, 207 aa] [Mus sp.]				
HE9CP86	1011847	448	blastx.2	(AF161499) HSPC150 [Homo sapiens]	gb AAF29114.1 AF161499_1	100%	137	727
HPDOU46	1011883	449	blastx.2	(AF117582) calcyphosine-like protein [Manduca sexta]	gb AAF16704.1 AF117582_1	52%	72	692
HFCDW73	1011901	450	blastx.2	(AK000376) unnamed protein product [Homo sapiens]	dbj BAA91124.1	94%	6	425
HOVEB13	1011919	451	blastx.2	(AL117452) hypothetical protein [Homo sapiens]	emb CAB55934.1	99%	96	905
HPAMS93	1011948	452	blastx.2	TB1 [Homo sapiens]	gb AAA03587.1	97%	125	1105
HCRBN71	1011966	453	blastx.2	unknown [Saccharomyces cerevisiae]	gb AAA79999.1	40%	64	420
HCRNC60	1012005	454	blastx.2	tropomyosin [Homo sapiens]	gb AAA36771.1	81% 91% 31% 28% 27% 24% 22%	769 1202 796 766 766 925 1238	1236 1519 1245 1257 1218 1212 1459
HSPSJ24	1012064	455	blastx.2	IFN-alpha responsive transcription factor [Homo sapiens]	gb AAA58687.1	100%	392	925
HOVDZ22	1012136	457	blastx.2	unnamed protein product [unidentified]	emb CAB69195.1	89%	2	82

HCONM62	1012454	460	blastx.2	100 kDa coactivator [Homo sapiens]	gb AAA80488.1	97% 29%	5 2	1306 646
HOGU69	1012459	461	blastx.2	TB2 [Homo sapiens]	gb AAA66351.1	99%	101	691
HVVBD93	1012469	462	blastx.2	(AK001339) unnamed protein product [Homo sapiens]	dbj BAA91635.1	33% 27%	23 601	382 852
HCOMV86	1012482	463	blastx.2	DC classII histocompatibility antigen alpha-chain [Homo sapiens]	emb CAA25141.1	94% 98%	307 71	834 319
HCONJ23	1012519	464	blastx.2	DNA-PK [Homo sapiens]	gb AAA79184.1	97%	1	990
HVVBL04	1012536	465	blastx.2	inositol 1,4,5- trisphosphate receptor type 2 [Mus musculus]	emb CAA94861.1	98%	2	310
HVVAF65	1012542	466	blastx.2	peroxisomal acyl-CoA oxidase [Homo sapiens]	emb CAA50574.1	98%	3	731
HCONN76	1012545	467	blastx.2	p78 protein [Homo sapiens]	gb AAA36458.1	99%	64	1716
HODEG95	1012599	469	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF1 18094_21	64% 41%	452 550	300 443

HCOOX52	1012600	470	blastx.2	C1 inhibitor [Homo sapiens]	emb CAA30314.1	100%	68	1567
HVVBK78	1012645	472	blastx.2	protein kinase C mu [Homo sapiens]	emb CAA53384.1	98%	101	643
HVVBK73	1012646	473	blastx.2	amiloride binding protein [Homo sapiens]	emb CAA55046.1	93%	2	709
HCOMW3	1012652	474	blastx.2	NBK [Homo sapiens]	emb CAA62013.1	52%	648	710
						100%	48	527
HVVBK78	1012654	475	blastx.2	(AF026851) cytochrome oxidase assembly factor [Homo sapiens]	gb AAD08640.1	99%	44	1099
						99%	1102	1701
HVVA41	1012665	477	blastx.2	(AB006202) cytochrome b small subunit of complex II [Homo sapiens]	dbj BAA22054.1	100%	74	550
HVVAS32	1012668	478	blastx.2	giantin [Homo sapiens]	emb CAA53052.1	95%	24	2036
						97%	2032	2856
						27%	141	1877
						22%	123	2252
						23%	222	2015
						23%	135	2078
						22%	117	2030
						23%	153	2021
						23%	117	1829
						22%	126	2018
						20%	117	1877
						22%	69	2039
						19%	126	1883

[illegible]

HVVAQ22	1012684	480	blastx.2	smooth muscle myosin light chain kinase, smMLCK [C-terminal] 1 1	gb AAB50715.1	98% 98%	67 67	573 573
HTAES83	1012693	481	blastx.2	specific 116-kDa vacuolar proton pump subunit [Homo sapiens]	gb AAA97878.1	99% 99%	302 2350	1990 2961
HOCMN67	1012700	482	blastx.2	receptor kinase [Homo sapiens]	gb AAA58391.1	99% 92% 54% 60%	1 1142 1310 1332	1155 1306 1375 1376
HAPOW35	1012711	483	blastx.2	agpet8 protein. [Schizosaccharomyces pombe]	emb CAA94699.1	48%	113	553
HOVJM48	1013085	484	blastx.2	(AL035593) dJ310J6.1 (novel protein) [Homo sapiens]	emb CAB56526.1	100%	2	454
HBJHY84	1013213	485	blastx.2	(AK000703) unnamed protein product [Homo sapiens]	dbj BAA91330.1	97%	3	653
HF1AS44	1013288	487	blastx.2	(AF124727) acinusS [Homo sapiens]	gb AAD56725.1	99% 100% 43% 38% 34% 28% 24% 26% 23% 30%	205 69 1186 1186 1168 1195 1183 1375 1313 1490	1605 203 1389 1407 1395 1605 1605 1653 1615 1675

HHAUD68	1013349	488	blastx.2	non-histone chromosomal protein [Homo sapiens]	gb AAB53427.1	40%	1112	1207
HEEAA89	1013436	489	blastx.2	(AF071172) HERC2 [Homo sapiens]	gb AAD08657.1	98% 100%	43 2	675 46
HNTAK22	1013524	490	blastx.2	(AF053944) aortic carboxypeptidase-like protein ACLP [Homo sapiens]	gb AAC25585.1	99% 34% 32% 27% 27% 25%	2 2 53 20 3 9	3175 853 853 763 305 341
HOVBX78	1013687	491	blastx.2	(AK001751) unnamed protein product [Homo sapiens]	dbj BAA91882.1	98% 88% 47%	281 633 649	637 707 750
HVVAV7 4	1013740	492	blastx.2	elongation factor 2 [Homo sapiens]	emb CAA35829.1	99% 90%	139 5	516 136
HSPSF84	1013853	493	blastx.2	heat shock protein [Drosophila melanogaster]	emb CAA30276.1	40%	165	440
HPAMV95	1014003	494	blastx.2	metalloproteinase inhibitor precursor [Homo sapiens]	gb AAA59581.1	100%	54	713
HOVBX22	1014041	495	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	60% 40% 63%	317 159 181	183 67 149
HPDRB63	1014204	496	blastx.2	zinc finger protein C2H2-25 [Homo sapiens]	gb AAA93261.1	60% 65% 59% 53%	2 2 2 2	781 646 679 766

HNHJG66	1014252	497	blastx.2	fused-ccdB [Escherichia coli]	emb CAA71575.1	49%	47	766
HDPPN96	1014432	498	blastx.2	interferon-gamma induced protein [Homo sapiens]	gb AAA58683.1	99%	416	1741
HPCTH41	1014485	499	blastx.2	(AB014888) MRJ [Homo sapiens]	dbj BAA32209.1	100%	168	890
HPCTY73	1014646	500	blastx.2	glycyl tRNA synthetase [Homo sapiens]	dbj BAA06338.1	92%	1	123
HCOPQ33	1014730	501	blastx.2	SOX9 [Homo sapiens]	emb CAA86598.1	100%	3	380
HOEBR36	1014754	502	blastx.2	(AF180801) peroxisomal long chain acyl-CoA thioesterase Ib [Mus musculus]	gb AAFI3872.1	73%	429	1061
HOER36	1014869	504	blastx.2	(AF172066) retinoic acid repressible protein [Homo sapiens]	gb AAD49745.1 AF1 72066_1	77%	176	352
HE8OX75	1015010	505	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	73%	9	167
HVASI06	1015024	506	blastx.2	(AK000178) unnamed protein product [Homo sapiens]	dbj BAA90992.1	44%	352	480
						100%	75	794
						53%	328	158
						54%	246	112
						85%	110	48
						100%	106	1086
						31%	619	1206
						96%	35	109
						100%	1083	1106

HDPXP07	1015059	507	blastx.2	(AK000370) unnamed protein product [Homo sapiens]	dbj BAA91118.1	64%	3	215
HE2KH02	1015093	508	blastx.2	(AL137756) hypothetical protein [Homo sapiens]	emb CAB70908.1	99%	1	615
HSPSI60	1015133	509	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	67%	5	319
HOCOC26	1015143	510	blastx.2	(AE001691) conserved hypothetical protein [Thermotoga maritima]	gb AAD35130.1 AE001691_4	40% 41%	136 136	690 543
HHEDC05	1015204	511	blastx.2	Lipoprotein RlpA precursor. [Escherichia coli]	dbj BAA35276.1	98%	867	61
HODES86	1015304	512	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	57%	125	364
HOPJU57	1015324	513	blastx.2	SELENOPROTEIN W.	sp O15532 SELW_H_UMAN	98%	934	1164
HVCAC71	1015343	514	blastx.2	alcohol dehydrogenase class III [Homo sapiens]	gb AAA51597.1	99%	41	1204
HSXCO55	1015360	515	blastx.2	coronin-like protein [Schizosaccharomyces pombe]	emb CAB11184.1	33% 28% 30% 24% 30%	159 1258 2063 991 1533	971 1575 2428 1263 1736
HLWDB78	1015430	516	blastx.2	(AK001322) unnamed protein product [Homo sapiens]	dbj BAA91623.1	95% 56%	30 613	602 681

HPCQU04	1015563	517	blastx.2	sapiens] (AF093414) estrogen response element binding protein [Saguinus oedipus]	gb AAC77437.1	98%	315 1232 1309 282	1232 1390 1362 518
HDPAT52	1015574	518	blastx.2	(AF056191) TPA inducible protein [Homo sapiens]	gb AAC12944.1	99% 42% 45% 38% 37% 37% 36% 34%	122 290 467 458 467 473 473 467	1054 1054 1018 1030 1030 1024 1024 1024
HAOSL81	1015620	519	blastx.2	P24 protein [Mus musculus]	dbj BAA18947.1	41% 32%	139 815	549 970
HMWIU46	1015814	520	blastx.2	(AF148457) heterogeneous nuclear ribonucleoprotein, alternate transcript [Homo sapiens]	gb AAF04487.1 AF1 48457_1	99%	232	1152
HSXCQ19	1015994	521	blastx.2	(AC006486) BC85722_1 [Homo sapiens]	gb AAD11988.1	90% 37% 25% 29% 30% 28% 25% 47%	3 880 30 595 15 63 523 341	1175 1203 515 867 299 284 888 397
HNOAG06	1016272	522	blastx.2	(AF001947) U4/U6- associated RNA	gb AAC09069.1	100%	340	546

HE2KN09	1016351	523	blastx.2	splicing factor [Homo sapiens] (AF095446) syndesmos [Gallus gallus]	gb AAF29566.1 AF095446.1	75%	24	680
HISDH58	1016740	524	blastx.2	(AF060570) rig-1 protein [Mus musculus]	gb AAD11628.1	70% 65% 48%	69 55 1058	1313 210 1222
HSPSB62	1016768	525	blastx.2	(AB016533) nuclear protein containing a WW domain (Npw38) [Homo sapiens]	dbj BAA76400.1	100%	196	990
HE2FR37	1016939	526	blastx.2	(AF213393) ATP-binding cassette protein [Mus musculus]	gb AAF31432.1	73%	247	726
HBJHU33	1017051	527	blastx.2	(AK001775) unnamed protein product [Homo sapiens]	dbj BAA91901.1	99%	82	618
HCOQZ88	1017227	528	blastx.2	(AF027299) protein 4.1-G [Homo sapiens]	gb AAC16923.1	100% 47%	225 3	1196 722
HNTSV21	1017374	529	blastx.2	seryl-tRNA synthetase [Homo sapiens]	emb CAA62635.1	95% 90%	712 3	1008 32
HNORH33	1017461	530	blastx.2	(AJ132637) ATP-dependent metalloprotease YME1L [Homo sapiens]	emb CAB51858.1	99%	255	2063
HUFEF35	1017565	531	blastx.2	precursor polypeptide (AA -21 to 782) [Homo sapiens]	emb CAA33261.1	99% 100% 35%	303 2527 1083	2123 3048 1166

HJPCG39	1017694	532	blastx.2	(AF118078) PRO1848 [Homo sapiens]	gb AAF22022.1 AF1 18094_17	65% 45%	17 142	139 240
HISBM03	1017772	533	blastx.2	(AF092576) translation initiation factor eIF3 p40 subunit; 1	gb AAC84044.1	100%	751	924
HOFAA79	1017801	534	blastx.2	(AF134404) delta-6 fatty acid desaturase [Homo sapiens]	gb AAD31282.1 AF1 34404_1	88% 83%	14 505	532 885
HPRAJ96	1017825	535	blastx.2	growth-regulating protein [Homo sapiens]	gb AAA18898.1	100% 100%	690 653	824 685
HBXFX71	1018032	536	blastx.2	(AF071081) proline- rich mucin homolog [Mycobacterium tuberculosis]	gb AAD41594.1 AF0 71081_1	32% 30%	1 1	597 633
HMVDD8 1	1018080	537	blastx.2	(AF161477) HSPC128 [Homo sapiens]	gb AAF29092.1 AF1 61477_1	99%	23	745
HVVDH50	1018226	538	blastx.2	zyxin [Homo sapiens]	emb CAA64447.1	100% 100% 32% 21% 32% 45% 24%	143 1330 1303 662 134 1822 5	1327 1857 1455 1336 346 1914 295
HNNBT57	1018243	539	blastx.2	(AK000372) unnamed protein product [Homo sapiens]	dbj BAA91120.1	54% 28% 30%	194 355 363	45 230 244
HCONJ11	1018459	540	blastx.2	(AF083385) 30kDa splicing factor; SPF 30 [Homo sapiens]	gb AAC64086.1	100%	186	899
HCQAW6	1018501	541	blastx.2	(AK000010) unnamed	dbj BAA90881.1	100%	104	436

8					protein product [Homo sapiens]		100%	1198	1293
HVVCY25	1018772	542	blastx.2	almost identical to nRNP M protein, acc.L03532 [Homo sapiens]	emb CAA50897.1		96%	1381	1455
HCOMB65	1018802	543	blastx.2	dJ68O2.2 (myosin, heavy polypeptide 9, non-muscle) [Homo sapiens]	emb CAB05105.1		98%	409	1059
							56%	418	792
							47%	394	711
							48%	418	810
							99%	332	1204
							100%	1803	2600
							100%	1204	1800
							26%	1725	2486
							63%	19	246
							23%	332	1237
							23%	335	1243
							25%	341	1183
							23%	332	1156
							23%	1803	2588
							22%	332	1147
							22%	332	1195
							25%	332	1195
							23%	332	1201
							23%	299	1249
							22%	1734	2531
							23%	1204	1746
							27%	1207	1791
							21%	1219	1767
							22%	335	1198
							30%	1258	1788
							22%	1794	2588
							23%	491	1204
							19%	335	1237

							1824
							1815
							470
							1198
							919
							1800
							1246
							1773
							1210
							1791
							1788
							2435
							1249
							2477
							1791
							2471
							2489
							1785
							1237
							1794
							2486
							2480
							1800
							1872
							1788
							1776
							1785
							1800
							2462
							1800

								22%	1204	1788
								23%	1237	1803
								18%	1189	1767
								25%	611	1183
								25%	1228	1473
								29%	1222	1440
								31%	1714	1800
								35%	67	228
								27%	1684	1803
								31%	115	237
								28%	61	216
								26%	67	225
								24%	258	401
								19%	34	234
								28%	249	344
								26%	1192	1305
HVVC30	1018907	544	blastx.2	(AF010144) neuronal thread protein AD7c- NTP [Homo sapiens]	gb AAC08737.1			53%	121	387
								61%	118	294
								69%	149	295
								62%	3	131
								59%	284	349
								53%	42	128
								47%	282	380
HODBV21	1018943	545	blastx.2	(AC004537) similar to tumor suppressor p33ING1; similar to AF044076 (PID:g2829208) [Homo sapiens]	gb AAC12956.1			99%	151	861
HCHMD81	1019326	546	blastx.2	(AL023859) trna-	emb CAA19575.1			42%	733	945

					splicing endonuclease subunit [Schizosaccharomyces pombe]			29%	85	423
HAZAR95	1019338	547	blastx.2		phosphate carrier protein [Homo sapiens]	emb CAA42641.1	100%	110	1192	
HMWFS51	1019409	548	blastx.2		(AB012223) ORF2 [Canis familiaris]	dbj BAA25253.1	41% 54% 42%	314 71 648	607 277 704	
HE8SD82	1019585	549	blastx.2		(AL035494) dJ635G19.2.1 (novel protein (isoform 1)) [Homo sapiens]	emb CAB44749.1	99%	13	570	
HSPSN08	1019608	550	blastx.2		(AF161491) HSPC142 [Homo sapiens]	gb AAF29106.1 AF161491.1	100% 99%	134 918	919 1235	
HVCAH24	1019749	551	blastx.2		(AC002394) Unknown gene product [Homo sapiens]	gb AAC05810.1	100%	103	468	
HJPCF71	1019892	554	blastx.2		(AK000566) unnamed protein product [Homo sapiens]	dbj BAA91259.1	98%	234	830	
HVCAE76	1019942	555	blastx.2		zinc finger protein [Rattus norvegicus]	emb CAA42610.1	48% 34% 50% 63%	576 72 1 89	2075 731 90 121	
HOCMH14	1020007	556	blastx.2		(AL137618) hypothetical protein [Homo sapiens]	emb CAB70844.1	99% 78% 42%	298 1146 1871	1311 1730 1984	
HPDRZ03	1020130	557	blastx.2		CCAAT-box DNA binding protein subunit	gb AAA59930.1	100%	131	751	

HOCPO73	1020180	558	blastx.2	NF-YB [Homo sapiens] protein p84 [Homo sapiens]	gb AA53571.1	93% 97% 100% 42% 37%	3646 3881 3993 1832 1888	2024 3636 3940 1758 1841
HNKDT10	1020832	559	blastx.2	(AF191018) E2IG3 [Homo sapiens]	gb AAF09482.1 AF1 91018 1	99% 93%	77 426	436 569
HWHGO2 5	1020841	560	blastx.2	(AF090942) PRO0657 [Homo sapiens]	gb AAF24054.1 AF0 90942 1	68%	3	137
HWMNE3 1	1020852	561	blastx.2	(AF083384) 45kDa splicing factor; SPF 45 [Homo sapiens]	gb AAC64085.1	98%	169	675
HUSYJ75	1020878	562	blastx.2	(AJ242540) hydroxyproline-rich glycoprotein DZ- HRGP [Volvox carteri f. nagariensis]	emb CAB62280.1	33% 35% 34% 32% 34% 32% 31% 32% 29% 31% 30% 28% 34% 31%	67 67 67 67 67 67 67 67 64 67 64 64 184 184	684 624 624 684 624 714 696 624 714 654 654 696 624 783
HSDFS07	1020904	563	blastx.2	(AL033534) hypothetical serine-rich secreted protein	emb CAA22127.1	27%	981	118

					[Schizosaccharomyces pombe]							
HCOPC09	1021208	564	blastx.2		(AJ245905) HSBP1-like protein [Chlorocebus aethiops]	emb CAB55759.1	95%	183	305			
HVVB22	1021323	565	blastx.2		hnRNP G protein [Homo sapiens]	emb CAA80599.1	100%	936	1649			
HAMFW6	1021327	566	blastx.2		(AF075704) neuronal glutamine transporter [Rattus 1]	gb AAF34240.1 AF075704_1	89% 89% 100%	20 949 15	937 1227 53			
HPMBW8	1021661	567	blastx.2		(AF129756) G4 [Homo sapiens]	gb AAD18083.1 AA18083	85%	3	614			
HOFMK02	1021666	568	blastx.2		(AF038616) small tumor anitgen t-ag [Simian virus 40]	gb AAC59341.1	100%	159	230			
HOUHK71	1021682	569	blastx.2		(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	75%	429	268			
HCOOW2	1021759	570	blastx.2		(AJ011376) hypothetical protein [Homo sapiens]	emb CAB66159.1	30%	210	689			
HACMT02	1021794	571	blastx.2		ORF_o109 [Escherichia coli]	gb AAA79814.1	100%	209	3			
HISDS67	1022018	572	blastx.2		(AK000633) unnamed protein product [Homo sapiens]	dbj BAA91298.1	60% 36% 43% 28% 24% 30% 38%	22 1139 1130 890 417 1277 1344	339 1318 1225 1327 950 1522 1484			

HOVAA59	1022037	573	blastx.2	(AC002291) Similar ATP-dependent RNA Helicase [Arabidopsis thaliana]	gb AAC00620.1	27% 48% 28% 41%	1232 590 1285 1143	1372 682 1455 1193
						59% 33% 31% 39% 21% 46% 29% 27% 38% 36%	252 1765 1316 1573 1744 1417 1744 1736 1447 1718	1319 2421 1585 1770 2211 1506 1917 1966 1536 1813
HOCPL72	1022059	574	blastx.2	(AK001197) unnamed protein product [Homo sapiens]	dbj BAA91548.1	97% 92%	38 2402	1063 2440
HCOMM0 5	1022082	575	blastx.2	epidermal growth factor receptor kinase substrate [Homo sapiens]	gb AAA62280.1	46% 43% 23%	445 115 43	840 435 222
HLYDC86	1022162	576	blastx.2	(AF015040) NUMB protein [Homo sapiens]	gb AAD01548.1	100% 100%	3 839	836 1570
HTLEP21	1022167	577	blastx.2	(AF081280) nucleoplasmin-3 [Homo sapiens]	gb AAC31609.1	97% 100%	101 33	445 95
HVCAS77	1022313	578	blastx.2	ribonuclease HI large subunit [Homo sapiens]	emb CAB09725.1	99%	176	1072
HSKJP93	1022663	580	blastx.2	(AL050022) hypothetical protein	emb CAB43242.1	100%	2	247

HAZAA64	1022719	581	blastx.2	[Homo sapiens] predicted using Genefinder; Similarity to Prototheca 1 1 gene; cDNA EST yk386c1.3 comes from this gene; cDNA EST yk38	emb CAA99938.1	43%	304	705
HSEBD72	1022904	582	blastx.2	(AF044773) breakpoint cluster region protein 1 [Homo sapiens]	gb AAC08964.1	89%	164	580
HDPYE27	1022911	583	blastx.2	(AF062346) zinc finger protein 216 splice variant 1 [Homo sapiens]	gb AAC42601.1	100%	428	1066
HCRQL51	1022997	584	blastx.2	PEG1/MEST [Homo sapiens]	emb CAA72297.1	100%	50	1030
HDTC55	1023046	585	blastx.2	(AL117483) hypothetical protein [Homo sapiens]	emb CAB55956.1	33% 35% 42%	306 4 105	533 105 182
HOOIQ91	1023049	586	blastx.2	envelope protein [Homo sapiens]	gb AAA88027.1	63%	3	530
HCE4K28	1023227	587	blastx.2	(AF021792) Bcl- X/Bcl-2 binding protein [Homo sapiens]	gb AAB72092.1	98%	262	750
HPDVY62	1023264	588	blastx.2	DOCK180 protein [Homo sapiens]	dbj BAA09454.1	99%	2	1126
HLHDK42	1023339	589	blastx.2	modifier 2 [Mus musculus]	emb CAA40012.1	61% 85%	58 3	300 62
HLDRQ55	1023375	590	blastx.2	coiled-coil like protein	gb AAB61902.1	98%	5	388

HVVBI06	1023414	591	blastx.2	1 [Mus musculus] (AF064603) GA17 protein [Homo sapiens]	gb AACI17108.1	97% 96%	93 1359	647 637
HOCME51	1023422	592	blastx.2	(AK001103) unnamed protein product [Homo sapiens]	dbj BAA91503.1	98% 96% 97%	14 319 498	313 492 623
HPDOP74	1023531	593	blastx.2	(AF104670) cell cycle protein [Homo sapiens]	gb AAD05561.1	100%	173	1354
HMSOH12	1023545	594	blastx.2	chaperonin-like protein [Homo sapiens]	gb AAA61061.1	100%	1	1077
HOPJG50	1023584	595	blastx.2	ribosomal protein L34 [Homo sapiens]	gb AAC41916.1	97%	157	507
HUAB04	1023585	596	blastx.2	ribosomal protein L34 [Homo sapiens]	gb AAC41916.1	97%	21	371
HVCAA38	1023632	597	blastx.2	TREB protein [Homo sapiens]	emb CAA39149.1	100%	36	818
HIBCN87	1023837	598	blastx.2	(AF006264) recombination and sister chromatid cohesion protein homolog [Homo sapiens]	gb AAD01193.1	96% 92% 79% 100% 67% 28% 33% 40% 38% 36% 35%	1 1160 1332 1582 969 88 202 250 1169 331 969	1017 1300 1478 1665 1070 972 471 417 1315 510 1028
HPCOM04	1024000	599	blastx.2	vacuolar H ⁺ ATPase E subunit [Homo sapiens]	emb CAA53814.1	100%	141	818

HPAME01	1024332	601	blastx.2	(AL109978) hypothetical protein [Homo sapiens]	emb CAB53376.1	98%	804	1061
HTTJS76	1024472	602	blastx.2	N-WASP [Homo sapiens]	dbj BAA20128.1	97%	3	392
HCORI57	1024556	603	blastx.2	39 kDa encoded by N33 [Homo sapiens]	gb AAB18374.1	68%	6	44
HNORG50	1024624	604	blastx.2	(AF006084) p41-Arc [Homo sapiens]	gb AAB64189.1	97%	200	1231
HWLVR07	1024915	605	blastx.2	(AL050273) hypothetical protein [Homo sapiens]	emb CAB43374.1	57%	198	275
HOPKF60	1025047	606	blastx.2	(AJ249366) epsilon-COP protein [Homo sapiens]	emb CAB55628.1	98%	62	1027
HBDAD74	1025102	607	blastx.2	(AL031640) /prediction=(method:""genscan"" version:""1.0"" target:SPTREMBL::O6087	emb CAA21052.1	66%	1029	1112
HPCTY12	1025231	608	blastx.2	(AB015597) hTIM1 [Homo sapiens]	dbj BAA36499.1	100%	203	517
HFASF12	1025327	609	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	39%	2	403
HLIBM71	1025359	610	blastx.2	(AF110776) adrenal gland protein AD-003 [Homo sapiens]	gb AAF14859.1 AF110776_1	96%	68	1225
						64%	251	3
						98%	183	512
						100%	512	766

HNOKW2 7	1025366	611	blastx.2	F35C11.4 [Caenorhabditis elegans]	emb CAA90244.1	30% 31%	162 743	632 1060
HPFDG48	1025526	612	blastx.2	(AF083242) HSPC024- iso [Homo sapiens]	gb AAD39840.1	88% 90%	313 564	387 623
HVVBF24	1025712	613	blastx.2	TRAM protein [Homo sapiens]	emb CAA45218.1	100%	175	1296
HE8UF88	1025745	614	blastx.2	retinoblastoma-binding protein mRbAp48 [Mus musculus]	gb AAC52275.1	96% 40%	124 1391	1473 1495
HOUBC29	1025749	615	blastx.2	GTP-binding protein (rab2) [Canis familiaris]	gb AAA30888.1	100%	444	719
HOCYP47	1025965	616	blastx.2	(AF055010) unknown [Homo sapiens]	gb AAC09360.1	99% 92%	1567 1337	2760 1594
HOVKE20	1025990	617	blastx.2	follistatin-related protein FLRG [Homo sapiens]	gb AAC64321.1	100%	36	824
HODBK27	1026372	619	blastx.2	(AF054284) spliceosomal protein SAP 155 [Homo sapiens]	gb AAC97189.1	100%	123	497
HE8CH59	1026805	620	blastx.2	(AK001093) unnamed protein product [Homo sapiens]	dbj BAA91500.1	100% 100% 31% 36%	1913 1654 1994 2405	2632 1848 2689 2755
HSKGR52	1026911	621	blastx	putative glycosyl transferase [Schizosaccharomyces pombe]	emb CAB10854.1	55% 76% 42% 40%	488 389 272 92	616 439 376 202

HMUAQ0 5	1026913	622	blastx.2	(AF151825) CGI-67 protein [Homo sapiens]	gb AAD34062.1 AF1 51825_1	74%	54	524
HCOMA45	1026979	623	blastx.2	(AF113685) PRO0974 [Homo sapiens]	gb AAF29584.1 AF1 13685_1	51% 66%	557 601	378 566
HE2KI45	1027007	624	blastx.2	(AF161553) HSPC068 [Homo sapiens]	gb AAF29040.1 AF1 61553_1	99%	6	1565
HODDO66	1027207	625	blastx.2	S-adenosylmethionine synthetase [Homo sapiens]	emb CAA48726.1	78% 94% 52%	35 865 7	241 975 63
HVVAT45	1027269	626	blastx.2	(AF102265) N- acetylglucosamine- phosphate mutase [Homo sapiens]	gb AAC72409.1	100% 100%	275 74	1117 277
HVCAG18	1027484	627	blastx.2	(AL031663) dJ461P17.6 (Major Epididymis-specific protein E4 1 1 sapiens]	emb CAB37641.1	100%	22	393
HPTXK72	1027486	628	blastx.2	(AL031663) dJ461P17.6 (Major Epididymis-specific protein E4 1 1 sapiens]	emb CAB37641.1	100%	91	462
HDTLR06	1029191	630	blastx.2	(AF132552) BcDNA.GM01838 [Drosophila melanogaster]	gb AAD27851.1 AF1 32552_1	73%	123	1004
HPAMG11	1029484	631	blastx.2	BB1=malignant cell expression-enhanced gene/tumor 1 line, Peptide, 342 aa] [Homo sapiens]	gb AAB37433.1	99%	2	667

HSDJR27	1030870	632	blastx.2	(AL137520) hypothetical protein [Homo sapiens]	emb CAB70786.1	100%	52	1176
HOCPL33	1030871	633	blastx.2	extensin [Volvox carteri]	emb CAA46283.1	32% 35% 33% 32% 45% 34% 48% 36%	1097 1037 1040 1094 1747 1735 566 74	1516 1429 1420 1429 1899 1881 640 130
HPCQN80	1030963	634	blastx.2	ha1025 is new [Homo sapiens]	dbj BAA07552.1	99% 96%	95 1	2158 96
HODFZ16	1031085	636	blastx.2	(AB033168) nuclear protein ZAP [Mus musculus]	dbj BAA85182.1	86%	349	462
HWGAE28	1031316	637	blastx.2	member of DEAD box protein family [Homo sapiens]	emb CAA49992.1	99%	52	2271
HOFNZ21	1031328	638	blastx.2	valosin-containing protein [Sus scrofa]	gb AAA31142.1	65%	259	423
HOOKH25	1031329	639	blastx.2	(AC004472) TERA_HUMAN [Homo sapiens]	gb AAC07984.1	100%	279	2696
HDTIL75	1031435	640	blastx.2	(AK000031) unnamed protein product [Homo sapiens]	dbj BAA90894.1	99%	22	1092

HPRSB55	1031451	641	blastx.2	(AF168418) activating signal cointegrator 1 [Homo sapiens]	gb AAF01278.1	99%	9	1751
HPDPY36	1031606	642	blastx.2	(AF125182) single- strand selective monofunctional uracil DNA glycosylase [Homo sapiens]	gb AAD17301.1	100%	512	631
HETJ47	1031922	643	blastx.2	(AF020797) AP-mu chain family member mu1B [Homo sapiens]	gb AAD25870.1 AF0 20797_1	99%	60	1328
HMAMI21	1031988	644	blastx.2	hypothetical protein Rv0712 [Mycobacterium tuberculosis]	emb CAB06436.1	41%	365	1204
HCOQQ85	1032475	645	blastx.2	S100 calcium-binding protein A13 (S100A13) [Homo sapiens]	emb CAA68188.1	100%	379	672
HE2DQ62	1033653	646	blastx.2	putative T1/ST2 receptor binding protein precursor [Homo sapiens]	gb AAC50419.1	98%	105	785
HEBAE89	1034320	647	blastx.2	(AK000264) unnamed protein product [Homo sapiens]	dbj BAA91040.1	97%	260	400
HKDBF43	1034471	648	blastx.2	(AL049705) hypothetical protein [Homo sapiens]	emb CAB41269.1	100%	48	431
HVVCT43	1034539	649	blastx.2	novel ORF [Homo sapiens]	gb AAB72234.1	91% 100%	700 633	801 698

HTTDR30	1035435	650	blastx.2	(AF214634) polyA binding protein [Homo sapiens]	gb AAF19993.1 AF214634_1	91%	806	841
HODGO46	1035602	651	blastx.2	unknown protein [Homo sapiens]	gb AAA88036.1	38%	468	115
HNTTB23	1035988	652	blastx.2	(AJ246001) spastin protein [Homo sapiens]	emb CAB60141.1	99%	93	974
HVVVBV73	1036583	653	blastx.2	(AF013249) leukocyte-associated Ig-like receptor-1 [Homo 1]	gb AAB69324.1	100%	439	1299
HTEPV42	1036973	655	blastx.2	(AK001738) unnamed protein product [Homo sapiens]	dbj BAA91872.1	99%	1	435
HFTCG52	1037108	656	blastx.2	(AF117723) seed maturation protein PM27 [Glycine max]	gb AAD30426.1 AF117723_1	30%	286	786
HKAOB40	1037131	657	blastx.2	predicted using Genefinder; Similarity to Drosophila RNA I this gene [Caenorhabditis elegans]	emb CAB01127.1	32%	73	357

HPDVE37	1037303	658	blastx.2	cathepsin C [Homo sapiens]	emb CAA60671.1	100%	118	885
HTLES74	1037438	659	blastx.2	GAP-associated protein p190 - rat	pir A38218 A38218	74% 56% 63% 41%	50 681 15 43	811 875 152 171
HCORG51	1037480	660	blastx.2	ubiquitin-like protein [Bos taurus]	gb AAB49682.1	100%	150	434
HPAMM7 2	1038344	661	blastx.2	nucleoside-diphosphate kinase [Homo sapiens]	emb CAA68877.1	99%	44	520
HKZAT03	1038378	662	blastx.2	endothelial cell growth factor [Homo sapiens]	gb AAA60043.1	100%	114	1559
HDQMA8 5	1038717	663	blastx.2	glutathione S-transferase [Homo sapiens]	gb AAA35934.1	100% 100%	234 110	356 235
HVCCQ82	1038718	664	blastx.2	glutathione S-transferase [Homo sapiens]	gb AAA35934.1	100%	114	578
HTGFP54	1038915	665	blastx.2	(AL080156) hypothetical protein [Homo sapiens]	emb CAB45747.1	94%	415	525
HBODF41	1039017	666	blastx.2	beta-spectrin [Homo sapiens]	gb AAA60580.1	99% 20% 21% 22% 19% 22% 60%	1 7 28 16 1 184 2127	2172 2091 2151 2187 2118 2193 2351
HPAMC60	1039290	668	blastx.2	TRAF4-associated factor 2 [Homo sapiens]	gb AAD24202.1 U83194_1	100%	31	1242

HLMHM8 3	1039491	669	blastx.2	sapiens] (AK001123) unnamed protein product [Homo sapiens]	dbj BAA91513.1	44%	158	616
HOUDK70	1039538	670	blastx.2	(AF091083) unknown [Homo sapiens]	gb AAC72952.1	100%	285	1142
HMEFK29	1039652	672	blastx.2	(AC002398) F25965_1 [Homo sapiens]	gb AAB81199.1	54% 100%	808 1	993 48
HAOSK79	1039663	673	blastx.2	(AJ223953) hPTTG [Homo sapiens]	emb CAA11683.1	100%	54	659
HPDRV42	1039689	674	blastx.2	P58 [Homo sapiens]	gb AAC50331.1	100%	135	1649
HOPJD35	1039703	675	blastx.2	(AF035262) BAF57 [Homo sapiens]	gb AAC04509.1	100%	121	1353
HTFNP84	1039748	676	blastx.2	ect2 [Mus musculus]	gb AAA37536.1	94% 42%	73 27	1227 125
HTHDT76	1039871	677	blastx.2	(AL117404) hypothetical protein [Homo sapiens]	emb CAB55905.1	98%	7	564
HSYEC21	1039891	678	blastx.2	adenosine triphosphatase [Homo sapiens]	gb AAA35999.1	99% 96% 37%	432 1 3819	2372 435 3890
HKGCO25	1040384	679	blastx.2	NAP [Homo sapiens]	gb AAC37544.1	99%	3	665
HNOIN70	1040385	680	blastx.2	(AF062594) nucleosome assembly protein [Rattus norvegicus]	gb AAC67388.1	100%	297	425
HADFS31	1040388	681	blastx.2	(AF214680) C3HC4- like zinc finger protein [Homo sapiens]	gb AAF30180.1	88% 92%	449 145	832 504

HJBDC89	1040569	682	blastx.2	nonhepatic arginase [Homo sapiens]	dbj BAA13158.1	100% 97%	113 651	661 1175
HTAIX75	1040591	683	blastx.2	(AK000897) unnamed protein product [Homo sapiens]	dbj BAA91413.1	47%	303	557
HODBO29	1040620	684	blastx.2	thioesterase II [Homo sapiens]	emb CAA60024.1	63%	84	527
HOCOF27	1040631	685	blastx.2	zinc-finger helicase [Homo sapiens]	gb AAC39923.1	91%	277	687
HSPSE88	1040694	686	blastx.2	tumor susceptibility protein [Homo sapiens]	gb AAC52083.1	100% 52%	110 68	922 175
HSKXM78	1040826	687	blastx.2	(AK001550) unnamed protein product [Homo sapiens]	dbj BAA91751.1	63% 75% 31%	1 108 505	654 398 618
HNLMB92	1040913	688	blastx.2	protein of unknown function [Homo sapiens]	gb AAA63232.1	96%	355	666
HE8ON57	1040925	689	blastx.2	(AF005855) anon2A5 [Drosophila melanogaster]	gb AAB81486.1	26%	50	415
HOCOC14	1040932	690	blastx.2	protein antigen [synthetic construct]	emb CAA01182.1	100%	539	1384
HOGDP49	1041049	691	blastx.2	bcn92 [Drosophila subobscura]	emb CAB55311.1	55%	226	474
HOFMK22	1041070	692	blastx.2	(AF161479) HSPC130 [Homo sapiens]	gb AAF29094.1 AF1 61479 1	94%	3	356
HBGNT69	1041900	693	blastx.2	NF-AT3 gene product [Homo sapiens]	gb AAA79175.1	100% 71% 39%	111 3 421	428 212 612

HSPSI42	1042462	694	blastx.2	ubiquitin-activating enzyme E1 [Homo sapiens]	gb AAA61246.1	40%	455	586
HPDQD23	1042649	695	blastx.2	(AF055470) ZNF258 [Homo sapiens]	gb AAD15797.1	65%	174	338
HWMBAI 0	1042859	696	blastx.2	Mel-18 protein [Homo sapiens]	dbj BAA03074.1	95%	2717	2256
HETKL27	1042951	698	blastx.2	unknown [Homo sapiens]	gb AAA76738.1	40%	188	637
HPCTH04	1043273	699	blastx.2	ATL-derived factor/thioredoxin [Homo sapiens]	emb CAA54687.1	100%	180	494
HVVBM94	1043532	701	blastx.2	pre-pump-1 proteinase (AA -17 to 250) [Homo sapiens]	emb CAA30678.1	100%	52	852
HVVBC43	1043553	702	blastx.2	(AB000468) zinc finger protein [Homo sapiens]	dbj BAA19122.1	100%	301	870
HTPDM31	1044199	703	blastx.2	proline-rich protein MP2 - mouse (fragment)	pir A24264 A24264	31%	632	48
						34%	584	51
						33%	632	138
						34%	620	225
						53%	742	659
						39%	790	659
						39%	790	659
						39%	790	659

[illegible]

HNOKX86	1044893	713	blastx.2	(AF092138) HSPC033 [Homo sapiens]	gb AAD40380.1	100%	303	575
HTPHG81	1045117	714	blastx.2	(AL117402) hypothetical protein [Homo sapiens]	emb CAB55903.1	100%	537	1538
HPCIV49	1045379	715	blastx.2	ribosomal protein [Homo sapiens]	gb AAA36589.1	100%	127	444
HHGDK68	1045464	716	blastx.2	(AL020993) dJ5O6.1 (casein kinase 1, epsilon) [Homo sapiens]	emb CAA15888.1	89% 100%	124 765	858 1013
HNOKM3 8	1045500	717	blastx.2	transducin (beta) like 1 protein [Homo sapiens]	emb CAA73319.1	99%	120	1640
HHFUN47	1045842	718	blastx.2	(AF099028) putative transmembrane protein cmp44E [Drosophila melanogaster]	gb AAD12254.1	49% 52% 27% 83%	2 2 1007 865	1135 952 2368 882
HE9EJ82	1046856	722	blastx.2	beta-signal sequence receptor [Homo sapiens]	dbj BAA07206.1	96%	24	173
HODHS68	1047137	724	blastx.2	(AK000826) unnamed protein product [Homo]	dbj BAA91390.1	99%	528	1220

					sapiens]				
HOPKT59	1047169	725	blastx.2		p23 [Homo sapiens]	gb AAA18537.1	100%	335	814
HMCFK45	1047212	726	blastx.2		(AF182844) VPS28 protein [Homo sapiens]	gb AAF00499.1 AF182844_1	100%	124	786
HPIAN63	1047381	727	blastx.2		(AF011792) cell cycle progression 2 protein [Homo sapiens]	gb AAB69312.1	100%	206	586
							94%	586	786
							78%	770	892
							26%	107	505
							38%	762	935
							30%	589	687
HNSME49	1047403	728	blastx.2		predicted using Genefinder [Caenorhabditis elegans]	emb CAB04731.1	55%	114	554
HWEAC64	1047473	729	blastx.2		ORF X (AA 1 - 393) [Escherichia coli]	emb CAA31134.1	98%	167	700
HOCQI51	1047483	730	blastx.2		(AB034912) WD-repeat like sequence [Homo sapiens]	dbj BAA92312.1	99%	99	1004
							96%	967	1479
							46%	939	977
							46%	1081	1119
HOPKE15	1047634	731	blastx.2		putative RNA-binding protein [Schizosaccharomyces pombe]	emb CAB11047.1	36%	509	1432
							30%	141	401
HMAEL73	1047646	732	blastx.2		(AL157427) hypothetical protein [Homo sapiens]	emb CAB75652.1	100%	754	2463
HNOKE42	1047663	733	blastx.2		(AF116272) T-cell activation protein [Homo sapiens]	gb AAD38498.1 AF116272_1	100%	65	445

HOFAE31	1047670	734	blastx.2	ubiquinol--cytochrome- c reductase (EC 1.10.2.2) 11K protein - bovine	pir A00119 CCBO11	93% 92%	2 180	181 221
HNOAC93	1047820	736	blastx.2	(AB016092) RNA binding protein [Homo sapiens]	dbj BAA83718.1	100%	69	305
HMEJA45	1047848	737	blastx.2	(AF091242) ATP sulfurylase/APS kinase 2 [Homo sapiens]	gb AAC64583.1	87%	166	399
HLDAS11	1047937	738	blastx.2	Similar to Human C219-reactive peptide (L34688) [Homo sapiens]	dbj BAA13448.1	99% 91% 32%	233 52 503	958 249 907
HWMJB31	1048009	739	blastx.2	DARPP- 32=DOPAMINE AND CAMP-REGULATED PHOSPHOPROTEIN.	sp G545790 G545790	94%	169	729
HAZAA31	1048188	740	blastx.2	transketolase [Homo sapiens]	gb AAA98961.1	100% 76%	778 92	1959 1033
HOCMC83	1048300	741	blastx.2	hypothetical protein [Schizosaccharomyces pombe]	emb CAB11599.1	30%	446	1279
HCFC840	1048427	742	blastx.2	(AK001123) unnamed protein product [Homo sapiens]	dbj BAA91513.1	46%	17	1231
HVCAA65	1048595	743	blastx.2	(AF022815) proteasome subunit XAPC7 [Homo sapiens]	gb AAB81515.1	100%	191	934

HSPSI76	1048635	744	blastx.2	prolyl 4-hydroxylase alpha (II) subunit [Homo sapiens]	gb AAB71339.1	99%	208	1578
HVVCH35	1048658	745	blastx.2	(AF177385) cytochrome c oxidase assembly protein isoform 2 [Homo sapiens]	gb AAF05313.1 AF1 77385_1	99%	436	1233
HOFNI66	1048739	746	blastx.2	signal peptidase complex 25 kDa subunit [Canis familiaris]	gb AA21254.1	95%	33	710
HMSKI90	1048792	747	blastx.2	unknown protein [Homo sapiens]	gb AAA88038.1	39% 28% 45% 100%	3258 1452 2039 327	2377 1180 1944 310
HSYBI49	1049151	748	blastx.2	(AF101051) senescence-associated epithelial membrane protein [Homo sapiens]	gb AAD16433.1	100%	173	805
HTXSN37	1049372	749	blastx.2	(AL080159) hypothetical protein [Homo sapiens]	emb CAB45750.1	47% 46%	1154 408	1861 530
HMUBT31	1049466	750	blastx.2	serine palmitoyltransferase, subunit I [Homo sapiens]	emb CAA69941.1	100%	11	1429
HFPDO90	1049644	751	blastx.2	Similarity to yeast hypothetical protein PIR accession number	emb CAA94801.1	100%	516	611

HVVCB79	1050102	752	blastx.2	1 1 this gene; cDNA EST yk504c7.3 comes from this gene; cDN	emb CAA00829.1	95% 96%	213 1067	1139 1504
HDPGR19	1050167	753	blastx.2	urokinase [synthetic construct] (AL031733) dJ455J7.1 (cellular repressor of E1A-stimulated genes CREG) [Homo sapiens]	emb CAB42866.1	100%	11	670
HVVVDX63	1050256	754	blastx.2	interferon regulatory factor 1 [Homo sapiens]	gb AAA36043.1	100%	212	1186
HNOJA87	1050282	755	blastx.2	NUCLEAR FACTOR ERYTHROID 2 RELATED FACTOR 2 (NF-E2 1 ERYTHROID DERIVED 2, LIKE 2) (HEBP1).	sp Q16236 NFL2_HU MAN	99%	643	2415
HTPGI65	1050419	756	blastx.2	ESX [Homo sapiens]	gb AAB58075.1	100%	161	1273
HHFGN14	1050536	757	blastx.2	DNA binding protein [Homo sapiens]	dbj BAA08565.1	99% 97% 53% 31% 32% 40% 28% 46%	1818 405 121 203 465 3017 1464 2939	2738 995 810 421 833 3136 1784 2983
HTAIN76	1050553	758	blastx.2	(AF016903) agrin precursor [Homo]	gb AAC39776.1	98% 96%	371 3	1300 416

HL YBO89	1050702	759	blastx.2	caltractin [Homo sapiens]		36%	614	1252
HMEKJ82	1050767	760	blastx.2	serine/threonine protein kinase Krs-1 [Homo sapiens]	emb CAA51467.1	32%	614	1291
HOFNX17	1050969	761	blastx.2	annexin I [Oryctolagus cuniculus]	gb AAB17261.1	45%	3	416
HAOSY21	1051095	762	blastx.2	(AF151048) HSPC214 [Homo sapiens]	gb AAC78495.1	31%	3	440
HMWDB3 9	1051115	763	blastx.2	V-1 protein [Rattus norvegicus]	gb AAF36134.1 AF151048_1	38%	386	721
HAOSZ53	1051246	764	blastx.2	(AF028823) Tax interaction protein 1 [Homo sapiens]	dbj BAA05167.1	40%	426	557
HSODP14	1051256	765	blastx.2	p0071 protein [Homo sapiens]	emb CAA57478.1	26%	98	430
						32%	465	665
						35%	19	198
						27%	1125	1331
						58%	3	38
						40%	541	648
						58%	155	196
						100%	42	557
						95%	196	597
						91%	188	574
						45%	571	672
						85%	174	569
						99%	245	598
						100%	56	403
						82%	244	522
						96%	53	247
						53%	385	624

HWLXZ72	1051319	766	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	39% 34% 43%	452 187 84	580 300 152
HUSGQ45	1051410	767	blastx.2	(AK000101) unnamed protein product [Homo sapiens]	dbj BAA90946.1	100% 37%	18 246	527 539
HLDR454	1051437	768	blastx.2	cellular nucleic acid binding protein [Mus musculus]	gb AAB60490.1	100% 86% 51% 51% 38%	362 175 365 353 365	676 360 661 598 658
HNOIR48	1051533	769	blastx.2	(AJ251914) putative RNA helicase [Sus scrofa]	emb CAB63856.1	100%	94	1377
HKIXH35	1051883	770	blastx.2	Huntington Disease (HD) gene exon 1 [Homo sapiens]	emb CAA92991.1	65% 47% 40% 56% 42%	5 3194 640 2905 607	82 3250 705 2952 669
HHEBJ92	1051903	771	blastx.2	mannitol permease [Escherichia coli]	emb CAA24748.1	100%	184	2094
HPTGB84	1051953	772	blastx.2	(AF151871) CGI-113 protein [Homo sapiens]	gb AAD34108.1 AF151871.1	100%	93	668
HVCCD05	1051983	773	blastx.2	neurofibromin [Homo sapiens]	gb AA59925.1	96%	18	968
HPYSC40	1052158	774	blastx.2	(AL050169) hypothetical protein	emb CAB43305.1	100%	20	583

HDDMT56	1052261	775	blastx.2	[Homo sapiens] (AF110775) adrenal gland protein AD-002 [Homo sapiens]	gb AAF14858.1 AF1 10775_1	100%	158	844
HVVAW0 2	1052553	776	blastx.2	sorcin CP-22 [Homo sapiens]	gb AAA60588.1	100%	59	652
HOGCS42	1052557	777	blastx.2	(AB000712) CPE- receptor [Homo sapiens]	dbj BAA22984.1	100%	226	852
HAZAA59	1052593	778	blastx.2	CUG-BP/hNab50 [Homo sapiens]	gb AAC50895.1	90%	50	745
HMALJ21	1052874	780	blastx.2	(AC002397) C9 [Mus musculus]	gb AAC36017.1	52% 49% 40%	632 243 1826	1033 650 1915
HL YAR61	1053037	781	blastx.2	nuclear protein essential for dosage compensation. [Caenorhabditis elegans]	gb AAA92286.1	64%	282	431
HLTCQ80	1053164	782	blastx.2	(AF064801) multiple membrane spanning receptor TRC8 [Homo sapiens]	gb AAC39930.1	87%	2	622
HDTDU67	1053171	783	blastx.2	54k protein (AA 1-504) [Canis familiaris]	emb CAA34385.1	100%	512	697
HMABL01	1053173	784	blastx.2	(AK001782) unnamed protein product [Homo sapiens]	dbj BAA91907.1	100%	609	1289

HACMU05	1053236	785	blastx.2	(AB002405) LAK-4p [Homo sapiens]	dbj BAA24179.2	99% 100% 60%	1804 1301 815	2631 1813 889
HOVDF79	1053369	786	blastx.2	pumilio protein [Drosophila melanogaster]	gb AAB59189.1	66% 28% 27%	39 42 42	653 518 521
HVVBJ54	1053547	787	blastx.2	CIRP [Homo sapiens]	dbj BAA11212.1	100%	95	610
HOFMU50	1053548	788	blastx.2	heparan sulfate 2- sulfotransferase [Cricetulus longicaudatus]	dbj BAA20422.1	90%	374	532
HE9MO38	1053585	789	blastx.2	phosphoenolpyruvate carboxykinase (GTP) [Homo sapiens]	emb CAA72272.1	100% 48% 53%	77 486 387	220 587 431
HOPJF55	1053725	790	blastx.2	microfibril-associated glycoprotein [Homo sapiens]	gb AAA79920.1	100%	150	698
HAOTD13	1053746	791	blastx.2	casein kinase-II beta [Oryctolagus cuniculus]	gb AAA91892.1	100%	164	808

HOCPT34	1053973	793	blastx.2	p0071 protein [Homo sapiens]	emb CAA57478.1	98%	1	2334
HFKHC64	1054015	794	blastx.2	(AF058448) herpesvirus entry protein B [Homo sapiens]	gb AAC23797.1	99%	178	1614
HOPKO37	1054085	795	blastx.2	drebrin E2 [Homo sapiens]	gb AAA16256.1	99%	2	1063
HNBVO53	1054122	796	blastx.2	p160 [Homo sapiens]	gb AAC17708.1	89% 46% 31% 36% 90% 31% 37%	50 639 1871 883 36 754 952	2332 1403 2380 1119 68 1101 1173
HCQDQ11	1054196	798	blastx.2	cytochrome c oxidase subunit 3 [Homo sapiens]	dbj BAA77671.1	93%	25	777
HTFML39	1054230	799	blastx.2	secreted cyclophilin-like protein [Homo sapiens]	gb AAA36601.1	100%	226	873
HOGCR32	1054235	800	blastx.2	similar to mouse CC1. [Homo sapiens]	dbj BAA13194.1	90% 62% 35%	15 160 128	110 204 169
HFCDL60	1054288	801	blastx.2	(AF005038) secretory carrier membrane protein [Homo sapiens]	gb AAB62723.2	99% 66%	152 2	919 46
HODEC13	1054400	802	blastx.2	(AC007059) Human homolog of Mus musculus wizL protein	gb AAD19818.1	87%	3	722

					[AA 4-1561] [Homo sapiens]					
HUSYA18	1054451	803	blastx.2		DNA/RNA-binding protein [Homo sapiens]		gb AAA75623.1	89% 28% 76% 39% 47%	35 161 1 591 3	553 484 39 689 59
HOCON42	1054527	804	blastx.2		DYNAMIN 2.		sp P50570 DYN2_HUMAN	95% 74% 30% 28% 38%	545 162 1276 1666 2190	1588 734 1638 1914 2246
HKMNH3 7	1054550	805	blastx.2		(AL031115) ZXDA, ZXDB (zinc finger X-linked protein) [Homo sapiens]		emb CAB36858.1	50%	37	720
HPDWP21	1054662	806	blastx.2		(AF178534) talin [Homo sapiens]		gb AAF27330.1	99% 78%	63 35	797 76
HOGCS52	1054677	807	blastx.2		(AJ245621) CTL2 protein [Homo sapiens]		emb CAB75542.1	99%	36	1388
HWMCK6 0	1054751	808	blastx.2		(AF125099) HSPC038 protein [Homo sapiens]		gb AAD39916.1 AFI25099_1	100%	258	485
HWLOU33	1054790	809	blastx.2		lac repressor protein (gtg start codon) [Escherichia coli]		gb AAA24052.1	96%	18	401
HKZBM58	1054812	810	blastx.2		sin3 associated polypeptide p18 [Homo sapiens]		gb AAC51322.1	100%	126	584
HTEOV06	1054813	811	blastx.2		sin3 associated polypeptide p18 [Homo sapiens]		gb AAC51322.1	95%	317	799

HTEHP29	1055174	813	blastx.2	sapiens] protein related N- terminus of tre oncogene [Homo sapiens]	dbj BAA02807.1	97%	7	585
HNOJJ32	1055248	814	blastx.2	PRAJA1 [Mus musculus]	gb AAC00205.1	73% 45% 30% 55%	1084 841 100 1908	1989 1620 948 1985
HFPHF52	1055304	815	blastx.2	(AB006625) The human homolog of a mouse imprinted gene, Peg3. [Homo sapiens]	dbj BAA22956.1	98% 90% 31% 27% 30% 24% 27% 26% 30% 26% 32% 24% 20% 34% 55% 26% 28% 28% 25%	2 1290 251 62 197 11 44 62 146 5 605 278 35 221 1308 1290 1437 596 1287	1348 1682 979 1276 895 1333 1324 1273 895 856 1003 1147 979 484 1445 1676 1676 829 1769

HBNMF62	1055381	816	blastx.2	(AK000538) unnamed protein product [Homo sapiens]	dbj BAA91239.1	26% 32% 27% 36% 36% 39% 34% 28%	1308 1305 1398 905 1425 1596 1608 1344	1676 1499 1676 979 1499 1679 1676 1502
HTPHO72	1055426	817	blastx.2	EF-hand protein [Homo sapiens]	emb CAA55343.1	100%	98	1048
HOPKL18	1055439	818	blastx.2	stromelysin-3 precursor [Homo sapiens]	emb CAA40918.1	100%	2	1438
HTXKD84	1055467	820	blastx.2	Hlark [Homo sapiens]	gb AAC51293.1	97% 58% 55%	111 571 839	581 1191 1006
HTXRR82	1055480	821	blastx.2	myosin IC [Dictyostelium discoideum]	gb AAC37427.1	42% 32%	522 1433	1310 1504
HAIBU62	1055582	822	blastx.2	(AL133070) hypothetical protein [Homo sapiens]	emb CAB61393.1	99%	154	1518
HDTAY29	1055632	823	blastx.2	(AJ250865) TESS 2 [Homo sapiens]	emb CAB65119.1	99%	65	625
HCOQD79	1055767	824	blastx.2	(AF118394) putative	gb AAD45242.1 AF1	98%	201	689

						18394_1	100%	76	210
HAMHN1 2	1055899	825	blastx.2	nucleotide binding protein [Homo sapiens]	emb CAA94773.1	emb CAA94773.1	28% 36%	53 263	559 562
HODIY67	1056000	826	blastx.2	Similarity to EGF domain; cDNA EST EMBL:T02406 comes from this gene [Caenorhabditis elegans]	gb AAD49722.1 AF1 67160_1	gb AAD49722.1 AF1 67160_1	99%	8	1957
HNTRS57	1056097	827	blastx.2	(AF167160) protein inhibitor of activated STAT-1 [Homo sapiens] similar to ankyrin motifs; cDNA EST CEMSH89F comes from this 1 1 cDNA EST EMBL:D33056 comes from this gene; cDNA EST E	emb CAA99881.1	emb CAA99881.1	45%	2	853
HUKFL74	1056102	828	blastx.2	fsh-like protein [Mus musculus]	emb CAA66186.1	emb CAA66186.1	98%	1	168
HTEBF05	1056104	829	blastx.2	Wnt7a protein [Homo sapiens]	gb AAC51319.1	gb AAC51319.1	100%	9	344
HOPKD19	1056275	830	blastx.2	B-cell receptor associated protein [Homo sapiens]	gb AAB51324.1	gb AAB51324.1	100%	188	1084
HLICR58	1056290	831	blastx.2	(AF181467) protein Z- dependent protease inhibitor precursor [Homo sapiens]	gb AAD53962.1 AF1 81467_1	gb AAD53962.1 AF1 81467_1	98%	3	932

HAAH48	1056400	833	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	100%	7	111
HSKJC61	1056407	834	blastx.2	(AF095448) putative G protein-coupled receptor [Homo sapiens]	gb AAC98506.1	100% 33%	366 265	1436 327
HEEBK29	1056454	835	blastx.2	(AF018081) type XVIII collagen [Homo sapiens]	gb AAC39658.1	95% 42% 43% 42% 46% 44% 45% 44% 38% 36% 26% 38% 35% 34% 37% 31% 25% 36% 44% 44% 29% 29% 32% 40%	1036 1036 1033 1036 1264 1429 1486 1036 1594 1327 1032 743 743 668 3777 1015 3672 3572 658 728 1432 2846 565 4021	3060 2118 2133 2166 2166 2118 2118 1632 2118 2109 2117 940 934 931 4139 1251 4190 3694 771 841 1587 3154 771 4119

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1863	2117	43%					
2204	2680	30%					
1046	1468	32%					
2207	2707	32%					
4695	4790	45%					
2791	2997	28%					
3534	3599	52%					
2077	2394	32%					
3555	3629	48%					
3983	4135	37%					
1987	2394	27%					
2083	2457	29%					
3489	3692	29%					
1934	2020	51%					
3788	3997	32%					
2797	3015	33%					
3677	3877	36%					
3677	3862	32%					
3083	3163	48%					
2839	2988	28%					
4643	4843	29%					
2050	2394	33%					
1055	1183	32%					
676	894	30%					
2706	2825	25%					
80	178	33%					
2785	2892	38%					
2050	2157	36%					
4090	4128	61%					
4090	4131	50%					

HCHMM1 9	1056617	836	blastx.2	Lutheran blood group glycoprotein [Homo sapiens]	emb CAA58449.1	47%	2801	2751
HE8NG02	1056625	837	blastx.2	(AL035608) dJ479J7.1 (similar to CHONDROMODULI N-1) [Homo sapiens]	emb CAB55680.1	93%	271	1011
HWHKD2 2	1056654	838	blastx.2	(AF094760) RFXANK [Homo sapiens]	gb AAC69883.1	59%	56	715
HOCPI87	1056666	839	blastx.2	protein-tyrosine- phosphatase (EC 3.1.3.48) 11A - human	pir A60345 A60345	99%	34	1125
HAAAA59	1056671	840	blastx.2	(AF151793) ALG-2 interacting protein 1 [Homo sapiens]	gb AAF08220.1 AF1 51793_1	99% 56%	162 6007	2765 6048
HOSBJ18	1056672	841	blastx.2	finger protein 1, placental - human	pir A32891 A32891	99% 68% 65% 65% 62% 61% 56% 40% 61%	752 830 914 998 590 548 482 2203 2239	2026 2095 2191 2221 1858 1774 1606 2322 2277
HUSGX12	1056736	842	blastx.2	GATA-6 [Homo sapiens]	dbj BAA22621.1	100%	2	838
HPDRG02	1056764	843	blastx.2	protein disulfide isomerase-related protein [Homo sapiens]	gb AA58460.1	99% 42% 41%	26 26 1031	1405 523 1366

HKZBB48	1056767	844	blastx.2	(AB022663) HFB30 [Homo sapiens]	dbj BAA78677.1	40%	1055	1327
HHA WB1 9	1056774	845	blastx.2	(AF140242) encephalopsin [Homo sapiens]	gb AAD32671.1 AF1 40242_1	98%	111	1316
HHA TP38	1056786	846	blastx.2	VEGF related factor isoform VRF167 precursor [Homo sapiens]	gb AAA91463.1	100%	87	650
HV VBE07	1056801	847	blastx.2	(AF003944) ovalbumin upstream promoter beta nuclear receptor rCOUPb [Rattus norvegicus]	gb AAB61297.1	97% 32%	702 185	983 328
HK AHB85	1056804	848	blastx.2	ear-2 gene product [Homo sapiens]	emb CAA31282.1	98%	4	831
HUSXA15	1056810	849	blastx.2	(AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	75% 62%	300 295	205 167
HNOCH54	1056839	850	blastx.2	Protein sequence and annotation available soon via Swiss-Prot; 1 [Homo sapiens]	emb CAA62188.1	30% 26% 26% 23% 24% 24% 24% 26%	727 556 727 703 703 706 892 703	1833 1875 1779 1809 1782 1812 1827 1812

							24%	727	1782
							21%	724	1833
							24%	733	1827
							25%	883	1827
							26%	856	1824
							22%	28	1236
							23%	883	1833
							21%	865	1836
							22%	856	1827
							23%	988	1833
							22%	730	1836
							24%	4	852
							25%	1	876
							22%	715	1782
							32%	7	408
							31%	145	690
							24%	31	876
							23%	976	1830
							28%	1	456
							25%	31	852
							22%	16	885
							23%	382	1359
							23%	745	1527
							20%	22	843
							26%	1	906
							28%	7	408
							26%	1	411
							24%	424	1296
							30%	10	411
							23%	724	1251

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[illegible]

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							32%	1660	1812
							25%	1648	1830
							34%	1648	1830
							24%	1333	1782
							23%	415	684
							26%	1648	1827
							26%	1273	1644
							29%	1006	1254
							21%	1009	1527
							29%	418	654
							22%	1282	1533
							23%	1582	1827
							32%	430	678
							28%	148	432
							18%	1117	1488
							27%	1648	1812
							21%	1123	1509
							31%	16	420
							29%	1618	1827
							25%	1123	1527
							27%	1012	1347
							20%	1390	1644
							25%	382	681
							27%	1369	1782
							22%	352	675
							23%	427	1311
							25%	427	678
							32%	430	654
							25%	427	684
							29%	430	693

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							20%	907	1245
							25%	1288	1584
							20%	1075	1905
							22%	1120	1383
							21%	1207	1806
							26%	409	675
							25%	28	411
							22%	1285	1509
							26%	16	435
							25%	1648	1917
							23%	1648	1812
							37%	1463	1567
							18%	1072	1530
							21%	1369	1929
							24%	1648	1782
							25%	1642	1782
							22%	1012	1401
							27%	338	454
							22%	1651	1839
							23%	1174	1509
							26%	1357	1734
							23%	1369	1626
							21%	1375	1635
							16%	754	1788
							26%	440	631
							24%	427	798
							25%	1	165
							25%	124	429
							23%	1651	1800
							22%	1648	1830

42%	2018	2095
25%	1	144
34%	1195	1314
22%	979	1362
34%	67	144
30%	1123	1368
20%	1648	1827
28%	897	1091
25%	1318	1458
22%	1468	1929
20%	1648	1827
47%	477	533
53%	1980	2018
23%	1120	1236
33%	993	1175
22%	1651	1827
22%	1648	1827
24%	1375	1509
24%	1910	2092
25%	1733	1837
53%	1648	1692
29%	397	528
20%	1369	1731
27%	1878	2060
31%	1336	1440
25%	1327	1554
23%	1120	1467
21%	1648	1830
43%	2031	2078
40%	1256	1321

HOCPP16	1056856	851	blastx.2	insulin-like growth factor binding protein 2 [Homo sapiens]	gb AA03246.1	50% 45% 27% 25%	814 1863 127 1120	849 1928 393 1236
HNOAH83	1056862	852	blastx.2	platelet-endothelial tetraspan antigen 3 [Homo sapiens]	gb AA087064.1	100%	90	848
HE2OU10	1056875	853	blastx.2	OTK27 [Homo sapiens]	dbj BAA23363.1	100%	97	480
HODGM4 6	1056927	854	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	68%	5	229
HODFR44	1056990	855	blastx.2	(AL137516) hypothetical protein [Homo sapiens]	emb CAB70782.1	99% 42% 47% 50% 48% 34% 38% 38%	11 14 20 71 14 14 14 38	469 343 319 313 274 403 313 313
HCHND12	1057009	856	blastx.2	(AF121963) receptor tyrosine kinase precursor [Gallus gallus]	gb AAD31764.1 AF121963_1	77% 77% 37% 42% 32% 42% 38%	136 299 6 48 45 63 54	321 403 155 131 155 176 155

HBHAC29	1057157	857	blastx.2	myelin-associated glycoprotein precursor [Homo sapiens]	gb AAA59545.1	98% 90% 39% 100%	2 427 20 786	424 759 400 815
HTPFW87	1057170	858	blastx.2	carboxyl ester lipase [Homo sapiens]	gb AAA51973.1	98% 34% 39% 35% 37% 36% 36% 34% 34% 34%	5 1620 2154 2160 2136 2160 2160 2109 2010 1977	2206 2084 1687 1690 1687 1705 1768 1681 1687 1687
HISAF60	1057212	859	blastx.2	junctional adhesion molecule [Mus musculus]	gb AAC32982.1	38%	116	988
HRABO80	1057219	860	blastx.2	(AL050143) hypothetical protein [Homo sapiens]	emb CAB43289.1	100%	1590	1937
HADDF30	1057260	861	blastx.2	transcription regulatory protein Evi-1, short form - human	pir B60191 B60191	98% 22%	1 7	1155 858
HDAAS58	1057272	862	blastx.2	(AC005003) similar to zinc finger protein MAZ [Homo sapiens]; similar to AAB04121.1 (PID:g995935)	gb AAF01349.1 AC005003_1	77%	263	676
HSDZG15	1057307	863	blastx.2	Homology with Squid retinal-binding protein	emb CAA91418.1	68% 47%	3 1212	713 1274

HPDVY52	1057393	864	blastx.2	(PIR Acc. No. 1 1 laminin alpha 5 chain [Mus musculus])	gb AAC53430.1	64% 47%	6 1165	1196 1380
HHESW02	1057478	865	blastx.2	(AF062075) leupaxin [Homo sapiens])	gb AAC16014.1	100% 34%	95 896	1252 1258
HVVWBW8 4	1057561	866	blastx.2	(AB003184) ISLR [Homo sapiens])	dbj BAA22848.1	100%	342	1625
HSLJC80	1057797	868	blastx.2	prolargin [Homo sapiens])	gb AAC18782.1	32% 32% 28% 28% 29% 34%	353 899 686 1109 1663 262	1228 1573 1420 1657 1980 357
HEOAD12	1057842	869	blastx.2	(AF116865) hedgehog- interacting protein [Mus musculus])	gb AAD31172.1 AF1 16865_1	70%	533	1069
HVVBT41	1057880	870	blastx.2	(AL035587) dJ475N16.1 (CTG4A) [Homo sapiens])	emb CAB75301.1	100%	439	1272
HAZAE42	1057915	871	blastx.2	cellular retinol binding protein [Homo sapiens])	emb CAA30318.1	100%	255	659
HPRBN60	1057948	872	blastx.2	(AF002282) alpha- actinin-2 associated LIM protein [Homo sapiens])	gb AAC16672.1	99%	72	1019
HOVCZ68	1057958	873	blastx.2	follistatin 1 precursor - human	pir A32141 A32141	99%	1	987
H6EDF71	1057979	874	blastx.2	antigenic surface determinant OA3	emb CAA49196.1	99%	92	1021

HCOOF60	1058001	875	blastx.2	[Homo sapiens] ubiquitin carrier protein E2 - human	pir B42856 B42856	99%	133	855
HVVBH81	1058059	876	blastx.2	hnRNP U protein [Homo sapiens]	emb CAA46472.1	99%	227	2644
HSPTJ51	1058172	877	blastx.2	SWI/SNF complex 155 KDa subunit [Homo sapiens]	gb AAC50693.1	95% 90% 29%	51 51 45	1004 1043 1055
HOPKC80	1058174	878	blastx.2	(AJ011497) Claudin-7 [Homo sapiens]	emb CAA09626.1	99%	348	980
HOCPT58	1058250	879	blastx.2	(AF037261) SH3- containing adaptor molecule-1 [Homo sapiens]	gb AAC09244.1	100% 94%	121 19	765 126
HPCTP25	1058287	880	blastx.2	gamma- aminobutyraldehyde dehydrogenase [Homo sapiens]	gb AAB18827.1	98%	72	1553
HODKM5 2	1058305	881	blastx.2	(AB008789) grb7 protein [Homo sapiens]	dbj BAA29059.1	98%	58	999
HCONB89	1058316	882	blastx.2	acid ceramidase [Homo sapiens]	gb AAC50907.1	99%	118	1302
HBPND88	1058432	884	blastx.2	carboxyl terminal LIM domain protein [Homo sapiens]	gb AAC05580.1	99%	142	1128
H6EE005	1058438	885	blastx.2	(AL117423) hypothetical protein [Homo sapiens]	emb CAB55915.1	99%	100	1527
HFIVR61	1058451	886	blastx.2	interferon beta 2a	emb CAA00839.1	99%	214	777

HVVBX28	1058458	887	blastx.2	[Homo sapiens]	SH3 domain-containing protein SH3P17 [Homo sapiens]	gb AAC50592.1	96%	53	493
							49%	308	466
							36%	104	301
HVVB138	1058475	888	blastx.2	[Homo sapiens]	factor H [Homo sapiens]	emb CAA68704.1	99%	294	2291
							25%	336	2264
							26%	294	2291
							25%	501	2219
							28%	1083	2288
							27%	1185	2099
HUKEJ46	1058539	889	blastx.2	(AF081507) signaling molecule LEFTY-B [Homo sapiens]	gb AAC33967.1		98%	479	1165
							99%	70	489
HDFTT47	1058588	890	blastx.2	lymphocyte antigen [Homo sapiens]	gb AAA36236.1		98%	2	268
							91%	258	398
HSSFS71	1058596	891	blastx.2	ESP1/CRP2 [Homo sapiens]	dbj BAA07703.1		95%	29	460
							77%	41	265
							34%	219	512
HSDJH63	1058612	892	blastx.2	(AB045180) toll-like receptor 9 [Homo sapiens]	dbj BAB19259.1		92%	192	1358
							100%	107	190
							52%	128	184
							45%	122	181
							58%	131	181
HAHGD24	1058622	893	blastx.2	laminin alpha 5 chain [Mus musculus]	gb AAC53430.1		61%	80	1024
HTAEV85	1058723	894	blastx.2	(AJ005566) SPR2H protein [Mus musculus]	emb CAA06595.1		43%	408	256
							64%	2500	2459
							50%	1784	1719
							35%	544	485
HPMME44	1058928	895	blastx.2	HCMVUL126 [human]	emb CAA35328.1		96%	78	329

HSPSG28	1058977	897	blastx.2	herpesvirus 5]	emb CAA61863.1	99% 88%	483 56	1679 82
HTGFW12	1059006	898	blastx.2	homolog of yeast mutL gene [Homo sapiens]	gb AAA63923.1	98% 94% 68%	83 1522 1431	1438 2670 1667
HOFMT75	1059050	899	blastx.2	cathepsin D [Homo sapiens]	gb AAA51922.1	87% 80%	7 414	456 743
HARNB17	1059085	900	blastx.2	HCMVUL126 [human herpesvirus 5]	emb CAA35328.1	98%	241	492
HPDRG65	1059102	901	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	69% 69% 83%	434 253 288	273 128 253
HAOSG15	1059145	902	blastx.2	(AF026291) chaperonin containing t-complex polypeptide 1, delta subunit; CCT- delta [Homo sapiens]	gb AAC96010.1	100%	160	1776
HHEND31	1059180	903	blastx.2	(AF117330) unknown [Rattus norvegicus]	gb AAD26207.1 AF1 17330 1	73%	175	1827
HBMSN62	1059186	904	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	86%	1102	1251
HOVCJ46	1059241	905	blastx.2	(AF037272) WAP four-disulfide core	gb AAC40055.1	87% 70%	41 175	214 336

					domain protein [Rattus norvegicus]					
HWLEP14	1059394	906	blastx.2		(AF117646) long CBL-3 protein [Homo sapiens]	gb AAD34341.1 AF117646_1	99%	92	1348	
HDABR73	1059532	908	blastx.2		bikunin [Homo sapiens]	gb AAC02781.1	100%	436	1191	
HOGAJ24	1059626	909	blastx.2		Similar to Human tesican (S33293) [Homo sapiens]	dbj BAA13404.1	100%	427	1698	
HTJMV05	1059692	910	blastx.2		protein tyrosine phosphatase [Homo sapiens]	gb AAA50779.1	100%	5	685	
HOOIL70	1059710	911	blastx.2		hematopoietic cell phosphatase [Homo sapiens]	gb AAA35963.1	100% 37% 32% 30%	212 188 2209 2219	1996 508 2310 2296	
HUNAE87	1059743	912	blastx.2		(AF062317) p120 catenin isoform 1B [Homo sapiens]	gb AAC39802.1	99%	158	955	
HTPHO01	1059764	913	blastx.2		(AF169284) LIM and cysteine-rich domains protein 1 [Homo 1]	gb AAF34411.1	97%	125	1048	
HDPWK69	1059784	914	blastx.2		(AL031629) similar to RNA recognition motif. (aka RRM, RBD, or 1 1)	emb CAA20980.2	52%	275	496	

HPCOK03	1059849	915	blastx.2	(AF008551) aurora-related kinase 1 [Homo sapiens]	gb AAC12708.1	99%	59	1267
HOOJC15	1059967	917	blastx.2	(AL117639) hypothetical protein [Homo sapiens]	emb CAB56027.1	98%	575	1216
HODFG47	1059969	918	blastx.2	(AF132856) suppressor of G2 allele of skp1 homolog [Homo sapiens]	gb AAD30062.1	100%	215	1213
HBIPC05	1060137	919	blastx.2	(AF078798) extracellular signal-regulated kinase 7; ERK7 [Rattus norvegicus]	gb AAD12719.1	62%	23	832
HOPJJ32	1060193	920	blastx.2	replication protein A 14kDa subunit [Homo sapiens]	gb AAA58350.1	100%	447	635
HNOBN20	1060382	921	blastx.2	unknown protein [Homo sapiens]	gb AAA88036.1	43% 47%	1362 1487	1150 1380
HOCPX74	1060391	922	blastx.2	(AL137714) hypothetical protein [Homo sapiens]	emb CAB70887.1	91%	18	656
HTEPP27	1060415	923	blastx.2	PF20 [Chlamydomonas reinhardtii]	gb AAB41727.1	39%	207	581
HLYAJ79	1060495	924	blastx.2	ATPase subunit 6 [Homo sapiens]	dbj BAA07295.1	79%	197	808
HCOOQ11	1060656	925	blastx.2	sialidase [Homo sapiens]	emb CAA55356.1	70% 100%	1 189	189 308

HWMGI51	1060711	926	blastx.2	hypothetical protein [Synecocystis sp.]	dbj BAA10294.1	41%	16	615
HDPJG33	1060780	927	blastx.2	GTP binding protein [Mus musculus]	emb CAA36803.1	78% 68% 37%	543 439 933	863 699 1061
HLYAE20	1060967	928	blastx.2	hypothetical protein 2 (rRNA external transcribed spacer) - 1	pir S12206 S12206	67%	1002	1259
HKZAR86	1060972	929	blastx.2	ERF-2 [Homo sapiens]	emb CAA55592.1	99%	322	1302
HAOTX62	1061036	930	blastx.2	SPIN protein [Homo sapiens]	emb CAA75163.1	100%	77	298
HOCQG58	1061180	931	blastx.2	26S PROTEASOME REGULATORY SUBUNIT S2 (P97) (TUMOR 1 1	sp Q13200 PSD2_HU MAN	100%	63	2786
HOFNH33	1061185	932	blastx.2	MRAS2 gene product [Mucor racemosus]	gb AAA83994.1	31%	260	823
HAJAQ63	1061238	933	blastx.2	matrin 3 [Rattus norvegicus]	gb AAB63955.1	90% 94% 54% 98% 24% 31% 35% 35% 40%	1038 293 2361 3308 2634 2646 1755 3362 3837	2570 1105 2810 3478 2813 2759 1847 3454 3896
HVVBK70	1061258	934	blastx.2	(AJ000414) Cdc42- interacting protein 4 [Homo sapiens]	emb CAA04062.1	92% 100% 28%	653 31 627	1276 468 1055
HVVBA82	1061332	935	blastx.2	(AL022313)	emb CAA18439.1	100%	3	500

HWLLG38	1061388	936	blastx.2	dJ1119A7.1 (mitochondrial thioredoxin) [Homo sapiens]	dbj BAA01706.1	100%	114	692
HTPCH84	1061466	937	blastx.2	neurocalcin [Bos taurus]	gb AAD03056.1	99% 100%	103 938	945 1000
HLGDA34	1061543	939	blastx.2	(AF104419) decoy receptor 3 [Homo sapiens]	dbj BAA91205.1	71% 73%	3 1766	254 1641
HAICB08	1061629	940	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA19652.1	100%	3	326
HVVAV60	1061694	941	blastx.2	rhoHP1 [Homo sapiens]	gb AAD34119.1 AF1 51882_1	100%	244	741
HPDVB50	1061708	942	blastx.2	(AJ002030) progesterone binding protein [Homo sapiens]	emb CAA05152.1	100%	33	206
HAZAY40	1061765	943	blastx.2	tight junction (zonula occludens) protein ZO- 1 [Homo sapiens]	gb AAA02891.1	100%	3	1631
HACMZ51	1061766	944	blastx.2	contains 10 ankyrin- like repeats; similar to human ankyrin, 1 bursaria Chlorella virus 1]	gb AAC96986.1	33% 28% 32% 30%	118 73 100 88	957 726 657 561
HUXAL63	1061790	945	blastx.2	100 kDa protein [Rattus norvegicus]	emb CAA45756.1	98%	2	1300

HLCLX57	1061886	946	blastx.2	latent transforming growth factor-beta- binding protein-2, 1 1	gb AAB37459.1	99%	3	953
						37%	447	941
						32%	27	398
						34%	21	398
						45%	696	941
						40%	693	914
						41%	696	941
						42%	681	929
						38%	666	941
						36%	693	914
						32%	666	989
						34%	684	929
						34%	657	929
						34%	666	941
						43%	12	167
						35%	696	929
						45%	6	149
						47%	15	149
						31%	9	377
						46%	3	155
						35%	678	914
						40%	3	149
						29%	9	365
						35%	3	155
						38%	3	143
						40%	246	371
						41%	837	944
						34%	3	143
						29%	15	188
						28%	99	215

HMALF63	1061935	947	blastx.2	factor activating exoenzyme S [Bos taurus]	gb AAA30514.1	35% 22% 57%	118 280 427	252 483 468
HACMR36	1062057	948	blastx.2	(AK000963) unnamed protein product [Homo sapiens]	dbj BAA91446.1	86% 99% 27% 34% 33% 27% 50%	181 29 1141 1460 1710 1883 1506	1290 391 1323 1528 1805 2170 1553
HAOSM08	1062079	949	blastx.2	(AF059617) serum- inducible kinase [Homo sapiens]	gb AAC14573.1	99%	284	2338
HTEFM89	1062084	950	blastx.2	(AF162680) STRIN protein [Homo sapiens]	gb AAD46623.2 AF1 62680.1	99%	500	1234
HCHAK72	1062123	951	blastx.2	(AF113596) mosaic serine protease epitheliasin [Mus musculus]	gb AAF21308.1	47%	95	1165
HPAME12	1062139	952	blastx.2	retinoic acid- and interferon-inducible 58K protein RI58 [Homo sapiens]	gb AAA84934.1	100%	209	1654
HCE4F10	1062309	954	blastx.2	(AL050060) hypothetical protein [Homo sapiens]	emb CAB43253.1	97%	798	1535

HBCBE63	1062328	955	blastx.2	(AF007170) unknown [Homo sapiens]	gb AAC39582.1	100%	191	790
						69%	87	251
						87%	25	96
						57%	1	63
HSSJO19	1062346	956	blastx.2	endonuclease G [Bos taurus]	emb CAA51320.1	97%	361	248
						24%	1093	887
HE8NQ23	1062369	957	blastx.2	(AF062006) orphan G protein-coupled receptor HG38 [Homo sapiens]	gb AAC28019.1	99%	574	1419
						100%	416	571
						87%	171	263
HTELJ95	1062431	958	blastx.2	(AB006679) ATP binding protein [Homo sapiens]	dbj BAA21881.1	99%	272	949
HTPCP50	1062435	959	blastx.2	(AF111069) latrophilin 2 splice variant baaae [Bos taurus]	gb AAD05305.1	38%	417	2129
						47%	1997	2044
HFKIT82	1062544	961	blastx.2	(AF152495) protocadherin beta 2 [Homo sapiens]	gb AAD43756.1 AF1 52495_1	98%	2	1663
						30%	20	1297
						26%	26	1267
HE2LW42	1062574	962	blastx.2	(AF090934) PRO0518 [Homo sapiens]	gb AAF24048.1 AF0 90934_1	100%	1267	1079
HOGCE44	1062586	963	blastx.2	protein tyrosine phosphatase (EC 3.1.3.48) [Homo sapiens]	gb AAA36528.1	99%	156	2561
HOVJJ72	1062626	964	blastx.2	latent TGF-beta binding protein-4 [Homo sapiens]	emb CAA73944.1	85%	547	1782
						91%	203	559
						85%	1	204

[illegible]

								37%	215	346
								37%	212	307
								42%	209	271
								29%	4	210
								55%	215	265
								30%	212	310
								29%	841	921
								32%	1766	1930
								32%	1667	1861
								58%	230	265
								29%	215	460
								56%	1764	1838
								58%	1792	1842
								63%	1859	1891
								40%	1391	1450
								37%	12	95
								37%	254	406
								66%	549	584
								87%	838	569
								34%	1633	1421
								69%	2007	1969
								30%	1621	1421
								38%	1024	938
								30%	1552	1352
								63%	1525	1493
								70%	1295	1266
HODBT14	1062628	965	blastx.2	guanine nucleotide exchange factor [Homo sapiens]	gb AAA35914.1	100%	15	320		
HBOEB83	1062629	966	blastx.2	thrombospondin-4	emb CAA79635.1	95%	4	1392		

HODCT96	1062631	967	blastx.2	[Homo sapiens] repressor transcriptional factor [Homo sapiens]	gb AAA79179.1	74% 74% 73% 56% 40% 69% 69% 41% 78% 67% 66% 71% 73% 77% 71% 75% 70% 69% 71% 64% 63% 72% 38% 49%	2 2 2 2 2 2 2 2 250 2 2 250 250 259 250 250 250 250 250 250 250 2 253	247 247 247 337 514 247 247 490 468 247 259 468 462 468 468 456 471 468 468 468 468 423 313 459
HTXJE60	1062655	968	blastx.2	(AK000642) unnamed protein product [Homo sapiens]	dbj BAA91301.1	50%	171	1112
HUSIQ62	1062679	969	blastx.2	high mobility group 2 protein [Homo sapiens]	gb AAA58659.1	100% 31%	188 143	814 472

HKBAK29	1062718	971	blastx.2	(AF161525) HSPC177 [Homo sapiens]	gb AAF29140.1 AF1 61525_1	100% 93%	975 42	1562 140
HPMCX26	1062743	972	blastx.2	LIMK-2 [Homo sapiens]	dbj BAA08312.1	97%	365	649
HFKHF51	1062785	973	blastx.2	(AF177203) cerebral cell adhesion molecule [Homo sapiens]	gb AAD51367.1 AF1 77203_1	99%	360	1910
HUCPE28	1062795	974	blastx.2	extensin [Volvox carteri]	emb CAA46283.1	36% 36% 36% 38% 27%	728 728 735 734 119	1063 958 1055 949 460
HPWAH30	1062840	975	blastx.2	zinc finger protein [Homo sapiens]	gb AAA59469.1	98% 77% 76% 76% 81% 75% 77% 75% 74% 76% 74% 75% 74%	1 1 1 1 1 1 1 1 1 1 10 1	705 705 705 705 666 702 696 705 705 705 705 705 705

							74%	1	705
							72%	1	705
							73%	1	705
							72%	1	705
							71%	1	705
							72%	1	705
							71%	1	705
							71%	1	705
							71%	1	705
							71%	1	705
							70%	1	705
							71%	1	705
							71%	1	705
							71%	1	705
							67%	1	705
							63%	1	705
							59%	163	705
							52%	702	815
							51%	723	815
							51%	723	815
							42%	702	815
							48%	723	815
							42%	702	815
							45%	723	815
							39%	702	815
							45%	723	815
							39%	702	815
							39%	702	815
							46%	726	815
							45%	723	815

H6EDQ51	H6EDQ51R	976	blastx.2	cytochrome b [Homo sapiens]			36%	702	815
HA5AU29	HA5AU29R	977	blastx.2	amyloid-beta protein [Homo sapiens]			42%	723	806
HACBX26	HACBX26R	978	blastx.2	NADH dehydrogenase subunit 1 [Homo sapiens]			36%	702	815
HACMH72	HACMH72R	982	blastx.2	TraC protein (gtg start codon) [Plasmid F]			41%	723	815
HACMS55	HACMS55R	985	blastx.2	(AF013215) ribosomal protein S2 [Bos taurus]			41%	723	815
HACMX77	HACMX77R	986	blastx.2	protein kinase C inhibitor-1 [Homo sapiens]			41%	723	815
HACMZ45	HACMZ45R	987	blastx.2	Keratin 8 [Homo sapiens]			41%	723	815
							42%	726	809
							43%	726	815
							43%	726	815
							43%	726	815
							95%	10	210
							85%	2	190
							89%	2	259
							93%	35	478
							100%	3	116
							100%	42	419
							100%	3	245

HACND54	HACND54 R	988	blastx.2	(AC003956) acetolactate synthase [Homo sapiens]	gb AAB94632.1	67% 78%	2 267	466 404
HACNF21	HACNF21R	991	blastx.2	40-kDa keratin protein [Homo sapiens]	gb AAA36044.1	86%	3	608
HACNF41	HACNF41R	992	blastx.2	cytokeratin 8 (279 AA) [Homo sapiens]	emb CAA31376.1	100%	2	91
HACNI47	HACNI47R	993	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	95%	96	500
HADET44	HADET44R	996	blastx.2	URF 1 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24026.1	95% 92%	62 481	481 522
HAHHD12	HAHHD12 R	998	blastx.2	(AF016252) Spinophilin [Rattus norvegicus]	gb AAB72005.1	96%	1	96
HALSG11	HALSG11R	999	blastx.2	(AC004544) cytochrome C oxidase; match to P14406 (PID:g117121) [Homo sapiens]	gb AAC12952.1	74% 74%	116 54	376 134
HAOSB87	HAOSB87R	1002	blastx.2	delta-aminolevulinate synthase (housekeeping) [Homo sapiens]	emb CAA39794.1	73%	1	549
HAOSE70	HAOSE70R	1004	blastx.2	acidic ribosomal phosphoprotein (P1) [Homo sapiens]	gb AAA36471.1	88% 55%	166 273	267 359
HAOSF68	HAOSF68R	1005	blastx.2	laminin-binding protein [Homo sapiens]	gb AAA36161.1	90%	76	576

HAOSG95	HAOSG95 R	1006	blastx.2	ribosomal protein S20 [Homo sapiens]	gb AAA60286.1	82%	111	452
HAOSI79	HAOSI79R	1007	blastx.2	ribosomal protein L7 [Homo sapiens]	gb AAA03081.1	95%	10	330
HAOSJ27	HAOSJ27R	1008	blastx.2	polyubiquitin - tobacco hornworm (fragments)	pir JH0302 JH0302	100%	2	142
						100%	2	142
						75%	135	233
						73%	135	224
						49%	156	332
HAOSJ33	HAOSJ33R	1009	blastx.2	lactate dehydrogenase- A [Homo sapiens]	emb CAA26879.1	39%	223	405
						72%	223	255
						95%	3	353
HAOSK38	HAOSK38 R	1011	blastx.2	Ku protein subunit [Homo sapiens]	gb AAA36155.1	100%	4	303
HAOSL36	HAOSL36R	1012	blastx.2	S- adenosylhomocysteine hydrolase [Homo sapiens]	gb AAA51681.1	94%	30	200
						96%	224	379
						71%	336	494
						88%	1	27
HAOSL47	HAOSL47R	1013	blastx.2	(AF155581) proteasome subunit beta 7 [Danio rerio]	gb AAD53521.1 AF1 55581_1	91%	86	343
						93%	4	96
						55%	432	572
						80%	340	429
HAOTE06	HAOTE06R	1021	blastx.2	(AF132947) CGI-13 protein [Homo sapiens]	gb AAD27722.1 AF1 32947_1	98%	2	451
HAOTF90	HAOTF90R	1023	blastx.2	carboxyl methyltransferase [Homo sapiens]	dbj BAA02991.1	94%	3	170
HAOTI07	HAOTI07R	1026	blastx.2	HL23 ribosomal protein [Homo sapiens]	emb CAA39417.1	96%	36	365
						84%	398	454

HAOTT79	HAOTT79R	1027	blastx.2	CYTOSKELETON-ASSOCIATED PROTEIN CKAPI (TUBULIN FOLDING COFACTOR B).	sp Q99426 CKAP_HUMAN	80%	361	405
HAOTU79	HAOTU79R	1028	blastx.2	ME491 antigen precursor (AA -1 to 237) [Homo sapiens]	emb CAA30792.1	97%	57	452
HAOTW22	HAOTW22R	1029	blastx.2	KERATIN, TYPE II CYTOSKELETAL 8 (CYTOKERATIN 8) (K8) (CK 1)	sp P05787 K2C8_HUMAN	100%	1	201
HAPNK45	HAPNK45R	1032	blastx.2	cytochrome c oxidase subunit 1 [Homo sapiens]	dbj BAA07292.1	90% 79% 90% 100%	2 274 473 261	262 516 535 281
HAPPR43	HAPPR43R	1033	blastx.2	hypothetical 18K protein - goldfish mitochondrion	pir JC1348 JC1348	42%	146	472
HAQML40	HAQML40R	1035	blastx.2	ribosomal protein L39 [Homo sapiens]	dbj BAA11465.1	98%	106	258
HAUAK54	HAUAK54R	1037	blastx.2	CAG-isl 7 [Homo sapiens]	gb AAC16021.1	62%	12	245
HAZAC68	HAZAC68R	1042	blastx.2	lumican [Homo sapiens]	gb AAA91639.1	97% 26% 36%	3 3 3	587 551 500
HAZAD13	HAZAD13R	1043	blastx.2	human elongation factor-1-delta [Homo sapiens]	emb CAA79716.1	74% 60%	53 250	478 555

HAZAE44	HAZAE44R	1045	blastx.2	fibronectin precursor [Homo sapiens]	emb CAA26536.1	98% 46% 40% 39% 36% 35% 33%	84 105 105 123 69 105 18	512 335 413 347 392 344 347
HAZAG23	HAZAG23 R	1046	blastx.2	unnamed protein product [Homo sapiens]	emb CAA62211.1	96%	2	466
HAZAI89	HAZAI89R	1051	blastx.2	KERATIN, TYPE II CYTOSKELETAL 8 (CYTOKERATIN 8) (K8) (CK 1)	sp P05787 K2C8_HU MAN	100%	72	260
HAZAJ72	HAZAJ72R	1052	blastx.2	protein arginine N- methyltransferase [Rattus norvegicus]	gb AAC52622.1	97% 58% 81% 34%	1 497 579 537	537 580 611 605
HAZAQ80	HAZAQ80 R	1053	blastx.2	(AF064205) dynactin 1 p135 isoform [Homo sapiens]	gb AAD55812.1	100%	84	389
HAZBI39	HAZBI39R	1056	blastx.2	(AL031427) dJ167A19.3 (novel protein) [Homo sapiens]	emb CAB46723.1	100%	83	424
HAZBJ69	HAZBJ69R	1057	blastx.2	transmembrane protein	emb CAA66947.1	100%	3	323

					[Oryctolagus cuniculus]				
HBJHY72	HBJHY72R P00B	1063	blastx.2		(AL117434) hypothetical protein [Homo sapiens]	emb CAB55922.1	98%	1	297
HBXCG52	HBXCG52 R	1065	blastx.2		(AK001079) unnamed protein product [Homo sapiens]	dbj BAA91496.1	89% 46%	371 457	427 606
HCACS53	HCACS53R P00A	1067	blastx.2		histone H3 [Spisula solidissima]	gb AAA29965.1	90% 100% 86%	313 116 506	507 244 574
HCHAJ85	HCHAJ85R	1068	blastx.2		hemolysin [Acanthamoeba polyphaga]	gb AAA58585.1	61%	206	57
HCHMM71	HCHMM71 R	1069	blastx.2		(AC003040) unknown protein [Arabidopsis thaliana]	gb AAC23757.1	58% 44%	2 249	244 329
HCLBH21	HCLBH21R	1071	blastx.2		cytochrome c oxidase subunit 1 [Pan troglodytes]	dbj BAA85270.1	91% 88%	3 415	416 600
HCOMA72	HCOMA72 R	1073	blastx.2		NuMA protein - human	pir S33413 S33413	100%	115	273
HCOMB04	HCOMB04 R	1074	blastx.2		prolylcarboxypeptidase [Homo sapiens]	gb AAA99891.1	98% 55%	77 702	718 782
HCOMD38	HCOMD38 R	1075	blastx.2		phospholipid hydroperoxide glutathione peroxidase [Homo sapiens]	emb CAA50793.1	100%	39	275
HCOMD61	HCOMD61	1076	blastx.2		(AF047470) malate	gb AAC03787.1	87%	1	216

HCOMF52	R				dehydrogenase precursor [Homo sapiens]			75%	240	287
HCOMF52	HCOMF52 R	1078	blastx.2		hypothetical protein 384D8_6 [Homo sapiens]	gb AAB03345.1		80%	14	655
HCOMG28	HCOMG28 R	1079	blastx.2		elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1		71% 100%	100 54	522 98
HCOMG40	HCOMG40 R	1080	blastx.2		ribosomal protein L15 [Rattus norvegicus]	emb CAA55026.1		76%	35	646
HCOMI30	HCOMI30R	1083	blastx.2		ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1		85%	315	491
HCOMI37	HCOMI37R	1084	blastx.2		similar to 40S ribosomal protein; cDNA EST CEMSA13F comes from 1 1 gene; cDNA EST EMBL:M79582 comes from this gene; cDN	emb CAA86061.1		59% 66% 64%	304 89 518	540 301 568
HCOML11	HCOML11 R	1085	blastx.2		fused-ccdB [Escherichia coli]	emb CAA71575.1		90%	273	470
HCOMM55	HCOMM55 R	1087	blastx.2		The polymorphysm (RFLP) of this gene is associated with 1 1	dbj BAA03853.1		100%	298	176
HCOMO58	HCOMO58 R	1088	blastx.2		(AF042857) lung cancer antigen NY-LU-12 variant A [Homo	gb AAC05826.1		98%	4	282

HCOMW5 2	HCOMW52 RP00B	1089	blastx.2	sapiens] (AB032025) ubiquitin [Canis familiaris]	dbj BAA83996.1	99%	60	443
HCOMX77	HCOMX77 R	1090	blastx.2	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTE IN A1 1 (HNRNP CORE PROTEIN A1).	sp P09651 ROA1_H UMAN	65% 96% 100% 57% 53% 48% 34% 57% 62% 44% 45% 75% 50%	133 5 81 5 8 5 142 11 81 5 11 81 84	315 82 122 82 76 82 291 82 128 82 79 116 119
HCONC18	HCONC18 RP00B	1091	blastx.2	cathepsin D [Homo sapiens]	gb AAA51922.1	87% 91% 83% 71%	3 190 335 426	188 333 424 467
HCONK56	HCONK56 R	1093	blastx.2	ribosomal protein L18 [Homo sapiens]	gb AAA16329.1	100% 57%	104 567	616 665
HCONL49	HCONL49 R	1095	blastx.2	ribosomal protein S13 [Homo sapiens]	dbj BAA13528.1	98%	3	221
HCONO17	HCONO17 R	1099	blastx.2	(AC004240) match to Z43555 (NID:g572788) [Homo sapiens]	gb AAC04502.1	81% 71%	4 65	69 148
HCONO25	HCONO25 R	1100	blastx.2	5,10- methenyltetrahydrofolate synthetase [Homo	gb AAC41945.1	77% 87% 100%	251 147 3	610 245 68

HCONP44	HCONP44R	1101	blastx.2	sapiens]		51%	481	579
				H ⁺ -transporting ATP synthase (EC 3.6.1.34) 58K chain - human	pir A33281 A33281	96%	3	398
HCONR31	HCONR31R	1104	blastx.2	e2rin (AA 1-586) [Homo sapiens]	emb CAA35893.1	98%	3	426
HCONU03	HCONU03R	1105	blastx.2	glyceraldehyde 3-phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AA52496.1	92%	3	281
						92%	511	518
						53%	611	627
								688
HCONW6	HCONW62R	1106	blastx.2	Human tetracycline transporter-like protein mRNA [Homo sapiens]	emb CAA92577.1	77%	1	297
						85%	330	473
						69%	529	645
						36%	6	119
HCOOG32	HCOOG32R	1111	blastx.2	ornithine decarboxylase antizyme [Homo sapiens]	dbj BAA13497.1	97%	5	334
HCOOG37	HCOOG37R	1112	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AA60284.1	92%	78	482
HCOOI71	HCOOI71R	1114	blastx.2	calpactin I light chain [Bos taurus]	gb AA30423.1	100%	64	354
HCOOI79	HCOOI79R	1115	blastx.2	beta-subunit [Bos taurus]	emb CAA29094.1	77%	215	703
						50%	681	740
HCOOM18	HCOOM18R	1116	blastx.2	keratin 18 [Homo sapiens]	gb AA59461.1	95%	14	640
						100%	616	690
HCOOM73	HCOOM73R	1117	blastx.2	claudin-10 [Homo sapiens]	gb AAC79506.1	90%	26	694
HCOOQ46	HCOOQ46R	1118	blastx.2	protein-tyrosine	emb CAA48338.1	100%	2	166

	R				phosphatase [Homo sapiens]					
HCOOT43	HCOOT43 R	1120	blastx.2		neutral protease alpha subunit [Homo sapiens]	gb AAA35646.1	100%	95	439	
HCOOT68	HCOOT68 R	1121	blastx.2		(AF019661) zeta proteasome chain; PSMA5 [Mus musculus]	gb AAC69149.1	99% 77%	171 473	470 652	
HCOOU56	HCOOU56 R	1122	blastx.2		(AF143815) ribosomal protein [Bos taurus]	gb AAD33912.1 AF143815_1	55% 62% 52%	30 233 698	515 406 748	
HCOOW72	HCOOW72 R	1123	blastx.2		keratin 18 [Homo sapiens]	gb AAA59461.1	78%	49	552	
HCOOX48	HCOOX48 R	1126	blastx.2		(AF095770) PTH-responsive osteosarcoma D1 protein [Homo sapiens]	gb AAD25980.1 AF095770_1	87% 83%	218 330	310 365	
HCOOY43	HCOOY43 R	1127	blastx.2		THIOREDOXIN PEROXIDASE 1 (THIOREDOXIN-DEPENDENT PEROXIDE 1 (NATURAL KILLER CELL ENHANCING FACTOR B) (NKEF-B).	sp P32119 TDX1_HUMAN	91%	22	426	
HCOPB03	HCOPB03R	1129	blastx.2		ribosomal protein L19 - rat	pir A56846 A56846	98% 62%	11 367	367 573	

HCOPC45	HCOPC45R	1130	blastx.2	homologue of yeast IPP isomerase [Homo sapiens]	emb CAA34890.1	96%	3	89
HCOPD67	HCOPD67R	1131	blastx.2	ubiquitin conjugating-protein [Oryctolagus cuniculus]	gb AAA31492.1	91%	104	541
HCOPE27	HCOPE27R	1132	blastx.2	serine protease homolog=NES1 [human, mammary epithelial cells, 76N, Peptide, 276 aa] [Homo sapiens]	gb AAB46780.1	99%	2	400
HCOP109	HCOP109R A	1134	blastx.2	fused; toxic gene [synthetic construct]	emb CAA67127.1	77%	62	310
HCOP34	HCOP34R	1136	blastx.2	(AF026246) HERV-E envelope glycoprotein [Homo sapiens]	gb AAC52076.1	65%	122	337
HCOP88	HCOP88R	1138	blastx.2	'human homologue of rat ribosomal protein L9' [Homo sapiens]	dbj BAA03401.1	74%	4	507
HCOPV41	HCOPV41R	1139	blastx.2	MEMD protein [Homo sapiens]	emb CAA71256.1	97%	3	593
HCOPZ15	HCOPZ15R	1140	blastx.2	(AL031228) dJ1033B10.9 (Short-chain alcohol dehydrogenase family member (HKE6, RING2)) [Homo sapiens]	emb CAA20237.1	96% 83%	7 572	579 625

HCOQA38	HCOQA38 R	1141	blastx.2	sapiens]	emb CAA63405.1	100%	68	271
HCOQB12	HCOQB12 R	1143	blastx.2	(AC005600) tuberin [Homo sapiens]	gb AAC34210.1	100% 84%	4 308	309 346
HCOQD29	HCOQD29 R	1147	blastx.2	S3 ribosomal protein [human, colon, Peptide, 243 aa] [Homo sapiens]	gb AAB19349.1	93% 55% 60%	16 552 632	588 707 730
HCOQD38	HCOQD38 R	1148	blastx.2	HMG1 protein (AA 1 - 215) [Bos taurus]	emb CAA31284.1	95%	112	636
HCOQD49	HCOQD49 R	1149	blastx.2	H ⁺ -transporting ATP synthase (EC 3.6.1.34) gamma chain precursor - bovine	pir A32019 PWBOG	89% 65%	35 513	532 692
HCOQG37	HCOQG37 R	1151	blastx.2	1-8D [Homo sapiens]	emb CAA40625.1	99% 100%	51 386	386 409
HCOQH46	HCOQH46 R	1153	blastx.2	mucin MUC5B [Homo sapiens]	gb AAC51343.1	100% 64%	95 324	343 365
HCOQJ06	HCOQJ06R	1156	blastx.2	37kD Laminin receptor precursor /p40 ribosomal associated protein [Gallus gallus]	emb CAA64147.1	85% 58%	26 352	361 474
HCOQJ07	HCOQJ07R	1157	blastx.2	laminin-binding protein [Homo sapiens]	gb AAA36161.1	88%	6	656
HCOQJ79	HCOQJ79R	1159	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	83%	1	471
HCOQK86	HCOQK86 R	1160	blastx.2	(AF038129) polyubiquitin [Ovis]	gb AAB92373.1	94% 94%	4 4	456 456

HCOQL87	HCOQL87 R	1161	blastx.2	aries]		93%	28	456
				glutathione S- transferase-pi [Homo sapiens]	gb AAA56823.1	97%	4	255
HCOQM87	HCOQM87 R	1162	blastx.2	DRPLA protein [Mus musculus]	dbj BAA13450.1	56%	440	487
HCOQQ079	HCOQQ079 R	1163	blastx.2	TIMP [Homo sapiens]	emb CAA00898.1	30%	440	556
HCOQP32	HCOQP32R	1164	blastx.2	elongation factor 1- alpha [Homo sapiens]	gb AAA52367.1	30%	440	556
HCOQS11	HCOQS11R	1165	blastx.2	acidic ribosomal phosphoprotein (P2) [Homo sapiens]	gb AAA36472.1	56%	24	521
HCOQU92	HCOQU92 R	1167	blastx.2	protein translocation complex beta subunit [Canis familiaris]	gb AAA19639.1	41%	328	630
HCOQV27	HCOQV27 R	1168	blastx.2	B4-2 protein [Homo sapiens]	gb AAA85576.1	52%	3	278
HCOQX38	HCOQX38 R	1169	blastx.2	catechol O- methyltransferase [Homo sapiens]	emb CAA81263.1	47%	17	307
HCOQY33	HCOQY33 R	1170	blastx.2	(AB000910) ribosomal protein [Sus scrofa]	dbj BAA19210.1	99%	2	574
HCOQZ86	HCOQZ86	1173	blastx.2	MHC class II HLA-	gb AAA59782.1	61%	561	608
						95%	15	149
						64%	151	381
						78%	102	398
						100%	91	270
						100%	272	301
						96%	3	239
						96%	32	421
						91%	421	489
						80%	495	539
						100%	1	30
						96%	49	321
						92%	106	357

	R			DR-beta-1 [Homo sapiens]		77%	351	470
HCORB20	HCORB20 R	1175	blastx.2	(AB012122) TIP49 [Homo sapiens]	dbj BAA28169.1	98%	68	292
HCORB66	HCORB66 R	1177	blastx.2	ribosomal protein L28 [Homo sapiens]	gb AAA85657.1	94%	75	482
HCORI18	HCORI18R	1178	blastx.2	hnRNP B1 protein [Homo sapiens]	dbj BAA06031.1	100%	120	317
						100%	2	124
						56%	126	305
						49%	123	305
						50%	129	305
HCORI25	HCORI25R	1179	blastx.2	pm5 protein [Homo sapiens]	emb CAA40655.1	44%	120	317
						43%	132	317
						39%	2	124
HCQCR82	HCQCR82 R	1180	blastx.2	NADH dehydrogenase subunit 3 [Homo sapiens]	dbj BAA77672.1	91% 90%	3 247	245 276
HCRME42	HCRME42 R	1181	blastx.2	IGF binding protein-2 [Sus scrofa]	gb AAC48728.1	87%	1	369
						59%	297	416
HDABR53	HDABR53 R	1182	blastx.2	ribosomal protein L23a [Homo sapiens]	gb AAA03341.1	47%	332	427
HDTAQ74	HDTAQ74 R	1185	blastx.2	(AF112208) 13kDa differentiation-associated protein [Homo sapiens]	gb AAF17196.1 AF112208_1	97%	38	463
						61% 90% 53% 100%	115 38 326 273	408 136 409 293
HDTBP08	HDTBP08R	1186	blastx.2	UbCH5C [Homo sapiens]	gb AAA91461.1	97%	255	470

HDTDB88	HDTDB88 R	1188	blastx.2	cytochrome c oxidase subunit 1 [Pan troglodytes]	dbj BAA85270.1	89% 88%	27 259	275 441
HE8QX44	HE8QX44R	1190	blastx.2	(AF010472) alpha- amidating monooxygenase [Homo sapiens]	gb AAD01439.1	93% 95% 80%	49 272 475	288 475 549
HE9QU94	HE9QU94R	1191	blastx.2	alligator Wilm's tumour protein [Alligator mississippiensis]	emb CAA59735.1	100%	3	170
HEAHF02	HEAHF02R	1192	blastx.2	(AC004044) predicted protein of unknown function [Arabidopsis thaliana]	gb AAD15346.1	37%	62	376
HEEAY40	HEEAY40R	1193	blastx.2	hypothetical protein 2 (rRNA external transcribed spacer) - 1	pir S12206 S12206	100%	3	128
HEGAF68	HEGAF68R	1194	blastx.2	URF 3 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24033.1	89% 89%	3 178	179 321
HFABK01	HFABK01R	1196	blastx.2	NADH dehydrogenase subunit 2 [Homo sapiens]	dbj BAA07291.1	80% 69%	2 186	190 284
HFIBG63	HFIBG63R	1198	blastx.2	cytokine SDF-1-beta [Homo sapiens]	gb AAA97434.1	96%	152	406
HFIBJ15	HFIBJ15R	1199	blastx.2	cytochrome oxidase subunit II [Homo sapiens]	gb AAA20843.1	93%	2	517
HFIXK57	HFIXK57R	1200	blastx.2	URF 3 (NADH dehydrogenase subunit)	emb CAA24033.1	90%	5	325

HFIZQ64	HFIZQ64R	1201	blastx.2	[Homo sapiens] (AK001601) unnamed protein product [Homo sapiens]	dbj BAA91782.1	100%	48	137
HFKKK36	HFKKK36 R	1202	blastx.2	neutral calponin [Homo sapiens]	dbj BAA12090.1	96%	3	86
HFPEC93	HFPEC93R	1203	blastx.2	URF 2 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24027.1	87% 90%	66 1	527 66
HFPIX37	HFPIX37R	1204	blastx.2	(AL137696) hypothetical protein [Homo sapiens]	emb CAB70878.1	51% 41%	4 1	240 258
HFTDK36	HFTDK36R	1205	blastx.2	folate-binding protein precursor [Homo sapiens]	gb AAA35822.1	100% 38%	90 341	290 514
HFVIB28	HFVIB28R	1206	blastx.2	fused-ccdB [Escherichia coli]	emb CAA71575.1	70%	26	175
HFXGR60	HFXGR60R	1207	blastx.2	(AF034746) LNXp70 [Mus musculus]	gb AAC40076.1	56%	347	57
HHAUD07	HHAUD07 R	1208	blastx.2	GTP-binding regulatory protein Gs alpha chain isoform - 1	pir JH0813 JH0813	75%	337	459
HHBFO21	HHBFO21R	1209	blastx.2	URF 3 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24033.1	83% 82% 64%	3 248 205	236 328 246
HHEVG50	HHEVG50 R	1210	blastx.2	CAG-isl 7 [Homo sapiens]	gb AAC16021.1	93%	13	474
HHFGQ65	HHFGQ65 RA	1211	blastx.2	(AJ249731) putative G8.1 protein [Homo]	emb CAB56506.1	81% 77%	107 25	319 129

HHSFG15	HHSFG15R	1213	blastx.2	sapiens] (AF014888) NADH dehydrogenase subunit 2 [Homo sapiens]	gb AAC25447.1	78%	3	743
HHSGP15	HHSGP15R	1214	blastx.2	cytochrome oxidase subunit III [Talpa europaea]	emb CAB71165.1	74% 62%	2 517	529 717
HHSGQ17	HHSGQ17 R	1215	blastx.2	cytochrome b [Homo sapiens]	gb AAA19775.1	89%	79	435
HKBAD05	HKBAD05 R	1216	blastx.2	(AB015335) HRIHFB2072 [Homo sapiens]	dbj BAA88116.1	84% 100%	61 324	351 356
HKZAE07	HKZAE07R	1218	blastx.2	Na ⁺ , K ⁺ -ATPase beta- subunit precursor [Sus scrofa]	gb AAA31002.1	100%	1	138
HKZAI14	HKZAI14R	1220	blastx.2	keratin 18 [Homo sapiens]	gb AAA59461.1	100%	3	368
HKZAI68	HKZAI68R A	1221	blastx.2	antigen [Homo sapiens]	gb AAA02999.1	100%	2	79
HKZAQ39	HKZAQ39 R	1222	blastx.2	ubiquitin-conjugating enzyme UbcH7 [Homo sapiens]	emb CAA63538.1	100%	19	480
HKZAR58	HKZAR58 R	1223	blastx.2	(AC005545) AP-3 complex delta subunit, partial CDS [Homo 1]	gb AAC34214.1	98%	3	266
HKZAS59	HKZAS59R	1224	blastx.2	ATP synthase beta subunit precursor [Homo sapiens]	gb AAA51809.1	100%	1	462
HKZAS64	HKZAS64R	1225	blastx.2	nephropontin [Homo]	gb AAA17675.1	98%	1	276

HKZAS84	HKZAS84R	1226	blastx.2	sapiens]	calpain II regulatory subunit (EC 3.4.22.17) [Bos taurus]	gb AAA30422.1	100%	2	103
HKZAV69	HKZAV69R	1227	blastx.2		ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	100%	8	412
HKZAV72	HKZAV72R	1228	blastx.2		fibronectin precursor [Homo sapiens]	emb CAA26536.1	100%	2	163
HKZBB22	HKZBB22R	1230	blastx.2		(AB015610) ribosomal protein S4X [Chlorocebus aethiops]	dbj BAA36501.1	100%	8	520
HKZBS89	HKZBS89R	1231	blastx.2		ferritin heavy subunit [Homo sapiens]	gb AAA35830.1	100%	1	381
HLDDQ80	HLDDQ80R	1232	blastx.2		ATPase subunit 6 [Papio hamadryas]	emb CAA76999.1	74% 54%	2 153	142 257
HLDXE19	HLDXE19R	1233	blastx.2		neuron-restrictive silencer factor [Homo sapiens]	gb AAC50115.1	80%	17	187
HLICD55	HLICD55R	1234	blastx.2		glutamine:fructose-6-phosphate amidotransferase [Homo sapiens]	gb AAA58502.1	96%	56	148
HLJBI37	HLJBI37R	1236	blastx.2		H(+)-transporting ATP synthase [Bos taurus]	emb CAA45865.1	100% 65% 80% 60% 88%	165 329 83 481 450	335 610 187 555 476
HLTHA47	HLTHA47R	1237	blastx.2		100 kDa protein [Rattus norvegicus]	emb CAA45756.1	82% 88%	187 380	393 406

HLTJA50	HLTJA50R	1238	blastx.2	(AK002071) unnamed protein product [Homo sapiens]	dbj BAA92068.1	63%	334	723
HLydi57	HLydi57R	1241	blastx.2	URF 1 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24026.1	90%	2	565
HMCFO19	HMCFO19R	1242	blastx.2	hypothetical 18K protein - goldfish mitochondrion	pir JC1348 JC1348	46%	104	361
HMCIZ44	HMCIZ44R	1243	blastx.2	URF 2 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24027.1	86% 74% 40%	1 377 207	342 517 389
HMCJE25	HMCJE25R	1244	blastx.2	cytochrome oxidase subunit I [Hyllobates lar]	emb CAA67630.1	82% 77%	3 298	314 351
HMSPB25	HMSPB25R	1245	blastx.2	alcohol dehydrogenase [Homo sapiens]	gb AAA51596.1	75%	315	172
HMVBB04	HMVBB04R	1246	blastx.2	cytochrome-c oxidase (EC 1.9.3.1) chain I - western lowland I	pir C59153 C59153	86%	73	201
HNAAE01	HNAAE01R	1247	blastx.2	(AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	67% 67% 100% 100% 100% 100% 100% 100%	95 96 90 89 92 91 93 94 91	196 197 155 154 157 156 158 159 153
HNBUY37	HNBUY37	1249	blastx.2	smooth muscle myosin	gb AAB28951.1	95%	77	289

HNBVL57	R				heavy chain isoform SM1 [human, umbilical 1				
	HNBVL57 R	1250	blastx.2	1250	growth-arrest-specific protein 2 [Homo sapiens]	gb AAC52058.1	74% 55%	242 70	514 384
HNHBC18	R	1251	blastx.2	1251	OS9 [Homo sapiens]	gb AAC39523.1	100% 41% 46% 35%	1 245 315 244	243 403 404 435
HNJFE85	R	1252	blastx.2	1252	(AL031670) dJ681N20.2 (similar to FTL1 (ferritin, light 1	emb CAB43181.1	97%	224	451
HNKCO29	R	1253	blastx.2	1253	(AF044957) NADH:ubiquinone oxidoreductase B15 subunit [Homo sapiens]	gb AAD05421.1	95%	52	390
HNOAA22	R	1254	blastx.2	1254	acidic ribosomal phosphoprotein (P1) [Homo sapiens]	gb AAA36471.1	91%	114	422
HNOAB88	R	1257	blastx.2	1257	actin 2 protein [Strongylocentrotus purpuratus]	gb AAA30032.1	83% 81%	3 509	491 541
HNOAC15	R	1259	blastx.2	1259	unnamed protein product [unidentified]	emb CAB42187.1	93%	1	87
HNOAE50	R	1260	blastx.2	1260	ribosomal protein L21 [Homo sapiens]	emb CAA61582.1	98%	98	577
HNOAE65	R	1261	blastx.2	1261	ribosomal protein L26 [Homo sapiens]	emb CAA49189.1	100%	101	535

HNOAF22	HNOAF22	1262	blastx.2	ribosomal protein L21 [Homo sapiens]	emb CAA61582.1	100%	76	555
HNOAG34	HNOAG34 R	1264	blastx.2	collagen alpha 1(I) chain - bovine (fragments)	pir A91193 CGBO1S	64%	54	239
						72%	1	108
						75%	221	319
						37%	3	239
						67%	221	313
						39%	21	239
						44%	54	236
						36%	15	236
						37%	15	236
						44%	72	239
						39%	21	239
						42%	12	236
						38%	3	236
						38%	15	239
						45%	84	236
						48%	99	239
						35%	15	236
						41%	54	239
						35%	6	239
						36%	3	239
						62%	233	319
						42%	69	239
						47%	93	236
						36%	15	239
						38%	3	200
						45%	93	236
						35%	15	239
						38%	54	239

						44%	93	239
						41%	6	236
						37%	3	239
						41%	69	236
						35%	6	236
						34%	15	239
						44%	84	239
						48%	218	322
						35%	6	239
						36%	21	236
						33%	15	239
						36%	3	239
						32%	3	239
						48%	218	319
						36%	54	239
						52%	227	322
						35%	15	236
						50%	233	328
						54%	233	328
						51%	227	322
						46%	111	239
						47%	218	319
						33%	21	236
						53%	233	322
						57%	233	316
						42%	114	239
						57%	233	316
						53%	233	316
						50%	227	328
						51%	227	328

						38%	69	239
						33%	3	236
						53%	233	316
						59%	1	96
						36%	93	239
						45%	233	358
						51%	227	319
						50%	227	322
						45%	221	319
						47%	218	319
						51%	233	319
						45%	212	316
						46%	227	316
						46%	221	316
						50%	233	322
						44%	221	322
						44%	230	328
						45%	227	328
						44%	1	108
						38%	93	239
						45%	227	322
						50%	227	316
						50%	233	316
						50%	227	316
						50%	230	319
						43%	227	319
						46%	233	322
						46%	221	316
						48%	233	319
						46%	227	316

							50%	233	322
							51%	227	316
							50%	233	316
							41%	227	316
							50%	233	316
							46%	233	322
							46%	227	322
							44%	242	328
							41%	212	319
							46%	227	316
							46%	233	322
							45%	1	105
							44%	230	322
							39%	1	123
							42%	209	322
							63%	260	316
							45%	227	319
							44%	1	105
							41%	1	108
							43%	227	316
							42%	1	114
							42%	1	105
							44%	1	105
							46%	233	316
							39%	221	316
							45%	1	93
							45%	227	322
							41%	1	93
							38%	1	108
							46%	233	322

43%	233	322
42%	221	316
41%	1	108
39%	1	114
38%	1	108
40%	1	108
40%	212	316
41%	221	322
36%	1	108
38%	1	108
43%	233	328
38%	227	316
43%	227	316
43%	233	322
40%	221	316
37%	1	105
38%	1	108
43%	227	316
38%	1	93
47%	227	316
41%	1	93
40%	221	316
38%	227	316
38%	227	316
41%	1	93
38%	1	93
36%	1	108
38%	218	316
63%	260	316
37%	1	105

								108
							1	108
							1	108
							1	108
							227	316
							227	316
							221	316
							1	108
							321	362
							1	105
							1	108
							1	108
							1	93
							1	123
							212	322
							1	66
							1	105
							1	93
							1	93
							1	105
							1	105
							1	108
							221	328
							1	105
							212	316
							233	316
							1	93
							1	105
							1	93
							1	108
							1	108
							1	108

							41%	1	93
							38%	1	108
							33%	1	108
							31%	1	114
							37%	1	105
							33%	1	108
							40%	233	322
							35%	1	93
							31%	1	105
							34%	1	105
							37%	230	316
							40%	227	316
							38%	1	93
							33%	1	108
							37%	1	96
							39%	218	316
							31%	1	123
							38%	233	316
							36%	1	105
							38%	1	108
							39%	233	316
							40%	233	322
							38%	1	93
							36%	1	108
							37%	1	105
							36%	233	322
							32%	1	93
							33%	1	108
							30%	1	108
							35%	1	93

							108
						1	108
						218	316
						227	316
						1	108
						1	105
						1	93
						233	319
						233	322
						221	322
						233	316
						1	66
						233	316
						233	319
						238	71
						250	20
						357	226
						238	86
						357	214
						321	223
						235	77
						318	223
						318	226
						238	50
						238	71
						199	71
						238	86
						321	226
						318	214
						318	214
						45%	214

							37%	238	86
							30%	238	80
							45%	318	220
							42%	360	226
							48%	318	226
							31%	238	71
							51%	318	214
							26%	253	68
							50%	199	104
							38%	238	98
							46%	315	226
							46%	315	226
							44%	357	226
							38%	238	104
							37%	238	92
							45%	318	226
							40%	357	226
							43%	318	223
							39%	238	71
							44%	318	214
							39%	354	226
							46%	318	223
							44%	357	223
							41%	238	104
							35%	238	71
							38%	238	71
							34%	238	77
							45%	318	217
							44%	315	214
							43%	321	214

[illegible]

[illegible]

HNOAH67	HNOAH67 R	1266	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	38% 33%	56 65	3 3
HNOAJ67	HNOAJ67R	1267	blastx.2	(AB000911) ribosomal protein [Sus scrofa]	dbj BAA19211.1	100%	69	524
HNOAL51	HNOAL51 R	1270	blastx.2	(AD001528) spermidine aminopropyltransferase [Homo sapiens]	gb AAB61308.1	72% 75%	70 3	255 74
HNOAO71	HNOAO71 R	1273	blastx.2	MAP kinase kinase [Homo sapiens]	gb AAA36318.1	98%	62	283
HNOAP21	HNOAP21 R	1274	blastx.2	QIZ 7F5 [Homo sapiens]	gb AAA36021.1	91%	20	667
HNOAQ24	HNOAQ24 R	1275	blastx.2	epoxide hydrolase [Homo sapiens]	gb AAA52390.1	89%	2	571
HNOAQ47	HNOAQ47 R	1276	blastx.2	TAXREB107 [Homo sapiens]	dbj BAA04491.1	99%	1	618
HNOAR85	HNOAR85 R	1278	blastx.2	(AF161378) HSPC260 [Homo sapiens]	gb AAF28938.1 AF1 61378 1	88% 92%	287 99	562 290
HNOAS07	HNOAS07 R	1279	blastx.2	scar protein [Homo sapiens]	gb AAA36597.1	97% 97%	96 1	521 108
HNOAS36	HNOAS36 R	1280	blastx.2	proteoglycan core protein [Homo sapiens]	gb AAB00774.1	100%	3	254
HNOAS92	HNOAS92 R	1281	blastx.2	glutathione transferase M1 [Homo sapiens]	gb AAA59203.1	100%	2	385
HNOAT76	HNOAT76 R	1283	blastx.2	(AB016193) transcription factor	dbj BAA36616.1	100%	2	187

HNOAV91	HNOAV91 R	1284	blastx.2	[Homo sapiens] ribosomal protein L28 [Homo sapiens]	gb AAA85657.1	99%	29	439
HNOBE83	HNOBE83 R	1286	blastx.2	translation initiation factor eIF3 p40 subunit [Homo sapiens]	gb AAD03465.1	100% 60% 79%	2 525 694	598 692 765
HNOBV55	HNOBV55 RA	1287	blastx.2	ribosomal protein L12 [Homo sapiens]	gb AAA36157.1	100% 74%	171 65	506 217
HNOCE63	HNOCE63 R	1288	blastx.2	(AF083217) WD repeat protein WDR3 [Homo sapiens]	gb AAD45865.1 AF0 83217_1	68% 30% 45%	2 442 393	388 819 557
HNOCL43	HNOCL43 R	1289	blastx.2	alpha-1 type III collagen [Homo sapiens]	gb AAA52002.1	98%	2	193
HNOCN02	HNOCN02 R	1290	blastx.2	TARBP-b gene product [Homo sapiens]	gb AAA91344.1	91%	7	666
HNOCN10	HNOCN10 R	1291	blastx.2	(AF043254) heat shock protein 75 [Homo sapiens]	gb AAC02679.1	90% 40% 100%	4 488 435	423 622 464
HNOCR44	HNOCR44 R	1292	blastx.2	ribosomal protein L7a large subunit [Homo sapiens]	gb AAA60282.1	80%	3	440
HNOCU03	HNOCU03 R	1293	blastx.2	translational elongation factor-1 alpha [Danio rerio]	emb CAA54771.1	74%	40	360
HNODG11	HNODG11 R	1295	blastx.2	tumor protein (AA 1 - 172) [Homo sapiens]	emb CAA34200.1	71% 70% 66% 85%	93 262 482 552	362 498 580 611

HNOJA93	HNOJA93R	1298	blastx.2	general transcription factor [Homo sapiens]	emb CAA37375.1	100%	1	453
HNOJB10	HNOJB10R	1299	blastx.2	(AF110731) antioxidant enzyme B166 [Homo sapiens]	gb AAF03750.1 AF110731_1	98% 53% 54%	11 384 418	376 521 480
HNOJB57	HNOJB57R	1300	blastx.2	midkine [Homo sapiens]	dbj BAA01457.1	74%	92	520
HNOJH48	HNOJH48R	1304	blastx.2	(AF077054) unr protein [Homo sapiens]	gb AAD27787.1 AF077054_1	100%	2	283
HNOJH52	HNOJH52R	1305	blastx.2	S-adenosylhomocysteine hydrolase [Homo sapiens]	gb AAA51681.1	100%	6	179
HNOJH82	HNOJH82R	1306	blastx.2	ubiquitin [synthetic construct]	gb AAA57047.1	94%	22	489
HNOJH85	HNOJH85R	1307	blastx.2	(AF035718) mesoderm-specific basic-helix-loop-helix protein; Pod-1 [Homo sapiens]	gb AAC62514.1	86%	13	513
HNOJJ20	HNOJJ20R	1308	blastx.2	ribosomal protein L23a [Homo sapiens]	gb AAA03341.1	98%	1	261
HNOJJ26	HNOJJ26R	1309	blastx.2	plasma gelsolin [Homo sapiens]	emb CAA28000.1	73%	2	568
HNOJK66	HNOJK66R	1310	blastx.2	von Willebrand factor prepropeptide [Homo sapiens]	gb AAB59512.1	90% 100% 26% 25% 25% 26%	1 408 16 13 307 91	459 491 396 324 402 405

HNOJM64	HNOJM64	1312	blastx.2	alpha-tubulin III [Cricetulus griseus]	gb AAA37026.1	69%	218	256
						27%	319	399
						38%	343	402
						32%	16	171
						97%	3	428
HNOJO55	HNOJO55R	1313	blastx.2	Protein sequence and annotation available soon via Swiss-Prot; 1 [Homo sapiens]	emb CAA62188.1	93%	423	277
						100%	134	9
						66%	134	9
						53%	423	277
						40%	423	268
						48%	131	9
						36%	143	3
						37%	423	289
						39%	402	286
						44%	116	9
						30%	423	280
						33%	128	12
						28%	128	12
						23%	128	3
						30%	128	12
						42%	408	310
						32%	423	289
						35%	426	265
						27%	137	3
						37%	396	280
						30%	408	280
						22%	146	12
						35%	119	9
						41%	357	280

HNOJP42	HNOJP42R	1314	blastx.2	envelope protein [Homo sapiens]	gb AAA88027.1	28%	414	280
						34%	116	12
						37%	381	280
						25%	423	280
						23%	426	310
						27%	116	9
						35%	402	286
						35%	426	298
						28%	423	277
						28%	116	12
						39%	158	93
						31%	420	310
						35%	140	99
						25%	128	12
						43%	117	70
HNOJP42	HNOJP42R	1314	blastx.2	envelope protein [Homo sapiens]	gb AAA88027.1	71%	6	302
HNOJQ22	HNOJQ22R	1315	blastx.2	(AJ224875) glucosyltransferase [Homo sapiens]	emb CAA12176.1	100%	217	510
						100%	1	219
HNOKA20	HNOKA20 R	1316	blastx.2	signal recognition particle subunit 14 [Homo sapiens]	emb CAA51838.1	97%	38	259
HNOKG34	HNOKG34 R	1318	blastx.2	hnRNP core protein A1 [Homo sapiens]	emb CAA56072.1	100%	43	510
						31%	52	324
HNOKI89	HNOKI89R	1323	blastx.2	(AF009368) Luman [Homo sapiens]	gb AAB69652.1	100%	2	370
HNOKT24	HNOKT24 R	1326	blastx.2	ribosomal protein L6 [Homo sapiens]	emb CAA49188.1	89%	74	457
						68%	3	191
HNOKU52	HNOKU52	1327	blastx.2	ribosomal protein L29	gb AAC50499.1	98%	33	509

HNOKV82	R	1328	blastx.2	[Homo sapiens] (AF081484) alpha-tubulin isoform 1 [Homo sapiens]	gb AAC31959.1	100%	3	488
HNORA56	R	1330	blastx.2	MHC class I A [Pan troglodytes]	gb AAA88855.1	93% 91% 96%	2 348 289	289 494 363
HNORB68	R	1331	blastx.2	high mobility group protein 17 [Homo sapiens]	gb AAA52678.1	95%	4	186
HNORC14	R	1332	blastx.2	hevin [Homo sapiens]	emb CAA57650.1	90%	2	496
HNORD11	R	1333	blastx.2	ribosomal protein L5 [Rattus norvegicus]	gb AAA42074.1	93% 91%	179 7	394 183
HNORE65	R	1334	blastx.2	ORF [Pan troglodytes]	dbj BAA01980.1	83%	77	355
HNORF03	R	1335	blastx.2	(AL031228) dJ1033B10.2 (WD40 protein BING4 (similar to S. 1 sapiens])	emb CAA20229.1	89% 83% 90%	70 529 357	357 582 386
HNORF04	R	1336	blastx.2	(AF196481) RING finger protein; FXY2 [Homo sapiens]	gb AAF07341.1 AF196481_1	91%	4	144
HNORF05	R	1337	blastx.2	'human homologue of rat ribosomal protein L9' [Homo sapiens]	dbj BAA03401.1	98% 98%	2 321	319 485
HNORF13	R	1338	blastx.2	TIMP [Homo sapiens]	emb CAA00898.1	74%	31	615
HNORH03	R	1339	blastx.2	(AF110731) antioxidant enzyme	gb AAF03750.1 AF110731_1	95%	3	641

HNORH05	HNORH05 R	1340	blastx.2	B166 [Homo sapiens] ubiquitin conjugating- protein [Oryctolagus cuniculus]	gb AAA31492.1	100%	43	498
HNORJ08	HNORJ08R	1342	blastx.2	ATPase [Mus musculus]	gb AAA88243.1	90% 90% 38%	3 308 514	350 496 606
HOCMA02	HOCMA02 RA	1344	blastx.2	(AF016365) hexokinase I [Homo sapiens]	gb AAC15862.1	100% 65% 86% 50%	3 3 490 490	497 497 558 555
HOCMC08	HOCMC08 R	1347	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	89%	19	423
HOCMF27	HOCMF27 R	1349	blastx.2	sorbitol dehydrogenase [Homo sapiens]	gb AAA66064.1	100%	3	395
HOCMG37	HOCMG37 R	1352	blastx.2	chaperonin (HSP60) [Homo sapiens]	gb AAA36022.1	98% 36%	4 326	351 424
HOCMI62	HOCMI62R	1353	blastx.2	S19 ribosomal protein [Homo sapiens]	gb AAA89070.1	67%	64	384
HOCMJ47	HOCMJ47R	1354	blastx.2	ribosomal protein L18a [Homo sapiens]	gb AAC18781.1	98% 100%	4 413	378 439
HOCMK20	HOCMK20 R	1355	blastx.2	stathmin [Xenopus laevis]	emb CAA50562.1	77% 64%	80 363	379 500
HOCML06	HOCML06 R	1356	blastx.2	glyceraldehyde 3- phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AAA52496.1	97%	123	707

HOCML66	HOCML66 R	1357	blastx.2	(AK000779) unnamed protein product [Homo sapiens]	dbj BAA91374.1	85% 76%	2 217	211 330
HOCMM5 2	HOCMM52 R	1358	blastx.2	glutathione transferase T1 [Homo sapiens]	emb CAA55935.1	98% 100%	133 24	594 137
HOCMS75	HOCMS75 R	1360	blastx.2	plakoglobin [Homo sapiens]	emb CAA92522.1	88%	6	500
HOCMS87	HOCMS87 R	1361	blastx.2	insulin-like growth factor binding protein 5 [Homo sapiens]	gb AAA53505.1	70%	151	615
HOCMY53	HOCMY53 R	1363	blastx.2	(AF028832) Hsp89- alpha-delta-N [Homo sapiens]	gb AAC25497.1	97% 100% 43%	97 309 45	312 416 113
HOCMY61	HOCMY61 R	1364	blastx.2	ribosomal protein S15a [Rattus norvegicus]	emb CAA54918.1	99%	80	466
HOCMY79	HOCMY79 R	1365	blastx.2	fau [Homo sapiens]	emb CAA46716.1	100% 100%	317 115	511 315
HOCOC38	HOCOC38 R	1366	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp Q16465 YZA1_H UMAN	100%	388	23
HOCOC94	HOCOC94 R	1368	blastx.2	protein phosphatase 2A (AA 1 - 309) [Oryctolagus cuniculus]	emb CAA68732.1	98% 84% 66%	3 490 566	485 567 628
HOCOF35	HOCOF35R	1369	blastx.2	(AF059486) putative actin-binding protein DOC6 [Mus musculus]	gb AAC31808.1	51% 81% 47% 29% 28% 31%	224 100 495 31 511 139	706 279 647 273 711 282

HOCOF50	HOCOF50R	1370	blastx.2	'FKBP52; 52 kD FK506 binding protein' [Homo sapiens]	gb AAA36111.1	72% 46% 55% 43%	2 38 396 472	460 532 632 561
HOCOO62	HOCOO62 R	1371	blastx.2	Ro ribonucleoprotein autoantigen (Ro/SS-A) precursor [Homo sapiens]	gb AAA36582.1	77%	42	596
HOCOP52	HOCOP52R	1372	blastx.2	spliceosomal protein [Homo sapiens]	gb AAA60300.1	67% 34% 39% 30% 42%	2 68 388 441 522	631 301 621 626 620
HOCOQ13	HOCOQ13 R	1373	blastx.2	probable transmembrane protein TMC - human	pir S70029 S70029	94% 75%	94 482	474 541
HOCOT70	HOCOT70 R	1375	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	97%	8	412
HOCPF69	HOCPF69R	1377	blastx.2	(AJ001701) deoxyhypusine synthase [Homo sapiens]	emb CAA04940.1	96% 72% 50%	1 347 396	351 412 455
HOCPH40	HOCPH40R	1380	blastx.2	3-oxoacyl-CoA thiolase propeptide (424 AA) [Homo sapiens]	emb CAA31412.1	100%	2	217
HOCPH44	HOCPH44R	1381	blastx.2	antiserotory factor-1 [Homo sapiens]	gb AAB54057.1	96% 48%	3 286	275 408
HOCPI53	HOCPI53R	1383	blastx.2	collagen (VI) alpha-1 chain [Homo sapiens]	emb CAA67576.1	76% 56% 100%	41 225 4	322 365 39

HOCPM39	HOCPM39 R	1385	blastx.2	pinin [Bos taurus]	gb AAB48302.1	86%	23	136
HOCPP65	HOCPP65R	1386	blastx.2	histone H2A.F [Gallus gallus]	emb CAA32094.1	85% 53%	63 350	314 445
HOCPP80	HOCPP80R	1387	blastx.2	isoleucyl-tRNA synthetase [Homo sapiens]	gb AAA80153.1	88%	3	563
HOCPPQ59	HOCPPQ59R	1389	blastx.2	(AF006012) dishevelled 2 [Homo sapiens]	gb AAB65243.1	84% 100%	38 5	394 52
HOCPPQ66	HOCPPQ66R	1390	blastx.2	clathrin-associated protein 17 [Rattus norvegicus]	gb AAA40742.1	100%	2	427
HOCPPQ75	HOCPPQ75R	1391	blastx.2	TIMP [Homo sapiens]	emb CAA00898.1	86%	26	646
HOCPPR01	HOCPPR01R	1392	blastx.2	alpha subunit (aa 1-394) [Bos taurus]	emb CAA27137.1	100% 91%	39 2	536 37
HOCPPR29	HOCPPR29R	1393	blastx.2	translation initiation factor [Homo sapiens]	emb CAA56074.1	96% 48% 40%	1 603 575	579 776 679
HOCPPR53	HOCPPR53R	1395	blastx.2	P311 HUM [Homo sapiens]	gb AAA74903.1	77%	86	268
HOCPPR77	HOCPPR77R	1397	blastx.2	similar to emb-5 protein of C.elegans. [Homo sapiens]	dbj BAA11479.1	92%	1	249
HOCPPS35	HOCPPS35R	1399	blastx.2	(AB017018) JKTBP2 [Homo sapiens]	dbj BAA75239.1	100%	3	203
HOCPPU03	HOCPPU03R	1400	blastx.2	dihydropyridine-sensitive L-type calcium channel alpha-2 subunit	gb AAA41088.1	65% 54%	7 441	456 512

HOCPU30	HOCPU30R	1401	blastx.2	[Rattus norvegicus]		emb CAA39371.1	66%	342	518
				KDEL receptor [Homo sapiens]			69%	139	267
HOCPU68	HOCPU68R	1402	blastx.2	preprocathepsin B [Homo sapiens]		gb AAA52129.1	61%	242	334
							98%	3	269
HOCPV29	HOCPV29R	1403	blastx.2	thrombin inhibitor [Homo sapiens]		emb CAA80373.1	58%	243	593
HOCPV67	HOCPV67R	1404	blastx.2	serine/threonine-protein kinase PRP4m [Mus musculus]		gb AAB03269.1	88%	58	327
							87%	345	518
HOCPV72	HOCPV72R	1405	blastx.2	(AF132952) CGI-18 protein [Homo sapiens]		gb AAD27727.1 AF132952.1	91%	33	203
							84%	184	318
HOCPW56	HOCPW56R	1406	blastx.2	ARL3 [Homo sapiens]		gb AAA21654.1	100%	2	502
HOCPW81	HOCPW81R	1408	blastx.2	cysteine protease Mch2 isoform alpha [Homo sapiens]		gb AAC50168.1	91%	2	739
HOCPX01	HOCPX01R	1409	blastx.2	(AF052514) thymus specific serine peptidase [Homo sapiens]		gb AAC33563.1	73%	129	440
							50%	113	571
							87%	566	589
							28%	483	587
HOCpz76	HOCpz76R	1411	blastx.2	(AF002705) beta prime COP [Rattus norvegicus]		gb AAB88018.1	99%	2	421
							77%	423	524
HOCQA26	HOCQA26R	1413	blastx.2	interferon-inducible protein [Homo sapiens]		emb CAA59337.1	100%	205	378
							71%	410	571
							47%	360	473
HOCQA37	HOCQA37	1414	blastx.2	lactoyl glutathione		dbj BAA02572.1	100%	136	276

HOCQA86	R				lyase [Homo sapiens]			82%	63	131
HOCQA86	HOCQA86 R	1415	blastx.2		proteoglycan core protein [Homo sapiens]	gb AAB00774.1		91%	84	392
HOCQB18	HOCQB18 R	1416	blastx.2		general transcription factor [Homo sapiens]	emb CAA37375.1		99%	3	473
HOCQB48	HOCQB48 R	1417	blastx.2		Na ⁺ -independent neutral and basic amino acid transporter [Homo sapiens]	dbj BAA11541.1		97%	4	555
HOCQC71	HOCQC71 R	1419	blastx.2		calcium binding protein [Homo sapiens]	dbj BAA23325.1		98%	126	419
HOCQD10	HOCQD10 R	1420	blastx.2		ribosomal protein L12 [Homo sapiens]	gb AAA36157.1		88%	152	637
HOCQD19	HOCQD19 R	1421	blastx.2		retinoid X receptor alpha [Rattus norvegicus]	gb AAA42093.1		80% 56%	3 424	392 567
HOCQD42	HOCQD42 R	1423	blastx.2		(AF095257) heterogeneous nuclear ribonucleoprotein C1/C2; hnRNP C1/C2 [Mus musculus]	gb AAD03717.1		86% 65% 59% 53%	1 299 474 474	294 475 614 599
HOCQD45	HOCQD45 R	1424	blastx.2		glyceraldehyde-3- phosphate dehydrogenase (EC 1.2.1.12), eutheric tissue - desert jerboa	pir JC5370 JC5370		91% 54% 100%	92 495 457	463 785 492
HOCQE35	HOCQE35 R	1425	blastx.2		ribosomal protein L7a large subunit [Homo sapiens]	gb AAA60282.1		74%	6	437

HOCQG94	HOCQG94 R	1426	blastx.2	actin [Brugia malayi]	emb CAB06627.1	62%	9	629
HOCQH81	HOCQH81 R	1427	blastx.2	(AF038952) cofactor A protein [Homo sapiens]	gb AAC39866.1	58%	254	652
HOCQI31	HOCQI31R	1428	blastx.2	prostacyclin-stimulating factor, PSF 1 sapiens]	gb AAB32370.1	91%	144	242
HOCQM24	HOCQM24 R	1430	blastx.2	hnRNPCore protein A1 [Homo sapiens]	emb CAA56072.1	100%	1	324
HODAF78	HODAF78 R	1431	blastx.2	(AC004638) amyloid precursor protein-binding protein 1 (APP-B1) [Homo sapiens]	gb AAC23784.1	55%	3	230
HODCZ52	HODCZ52 R	1434	blastx.2	tissue-specific secretory protein [synthetic construct]	emb CAA01433.1	66%	8	274
HODDI57	HODDI57R	1435	blastx.2	(AF113514) histone acetyltransferase MORF [Homo sapiens]	gb AAF00095.1	100%	26	133
							216	233
						96%	6	167
						68%	164	304
						36%	12	158
						33%	12	170
						35%	45	164
						30%	39	164
						25%	30	176
						30%	24	164
						27%	36	146
						26%	13	168
						37%	81	161
						46%	53	91

HODER57	HODER57 R	1440	blastx.2	Method: conceptual translation supplied by author [Homo sapiens]	gb AAA91179.1	34%	6	101
HODFC44	HODFC44R P00	1449	blastx.2	(AF216754) over-expressed breast tumor protein [Homo sapiens]	gb AAF25683.1 AF216754_1	98%	1	207
HODFJ14	HODFJ14R	1453	blastx.2	Ran_GTP binding protein 5 [Homo sapiens]	emb CAA70103.1	100%	2	181
HODFO16	HODFO16 R	1459	blastx.2	selenium donor protein [Homo sapiens]	gb AAA87567.1	100%	305	409
HODFO64	HODFO64 R	1460	blastx.2	zinc finger protein ZNF136 [Homo sapiens]	gb AAC50261.1	78%	16	153
						70%	1	153
						70%	1	153
						64%	1	153
						66%	1	153
						71%	16	153
						58%	1	153
						58%	1	153
						60%	1	156
						58%	1	153
						58%	1	153
						58%	7	153
						54%	10	153
						75%	150	233
						67%	156	239
						77%	174	239
						90%	174	233
						62%	153	239

								45%	159	329
								63%	153	242
								80%	174	233
								60%	153	236
								54%	49	153
								51%	242	328
								70%	269	328
								55%	239	319
								60%	174	233
								43%	242	337
								81%	272	319
								54%	248	319
								32%	159	314
								34%	174	314
								48%	242	328
								52%	251	319
								41%	239	325
								41%	248	319
								37%	239	325
HODFP51	HODFP51R	1461	blastx.2	pre-mRNA splicing factor [Homo sapiens]			gb AAA36648.1	77%	74	439
HODFQ19	HODFQ19R	1462	blastx.2	DNA topoisomerase III [Homo sapiens]			gb AAB03694.1	44%	104	436
HODFQ37	HODFQ37R	1463	blastx.2	pancreatic peptidylglycine alpha-amidating monooxygenase, 1 1			gb AAB32776.1	92%	47	499
				protein 4 [Homo sapiens]				93%	2	97
								25%	338	493
HODGB69	HODGB69R	1475	blastx.2	monooxygenase, 1 1			gb AAB58952.1	89%	3	470
HODGH30	HODGH30	1478	blastx.2	IDN4-GGTR14			sp Q9Y6Y5 Q9Y6Y5	90%	31	129

	R			PROTEIN.					
HODGH43	HODGH43	1479	blastx.2	(AB005878) BYJ15	dbj BAA21615.1	100%	48	116	
	R			[Nicotiana tabacum]		28%	217	363	
HODGH65	HODGH65	1480	blastx.2	IDN4-GGTR14	sp Q9Y6Y5 Q9Y6Y5	96%	41	127	
	R			PROTEIN.					
HODGN53	HODGN53	1482	blastx.2	(AF186461) ring finger protein Fxy [Rattus norvegicus]	gb AAD56247.1 AF186461_1	39%	95	475	
	R								
HODGQ52	HODGQ52	1487	blastx.2	unnamed protein product [unidentified]	emb CAB42187.1	82%	1	84	
	R					25%	118	189	
HODGW91	HODGW91	1489	blastx.2	phosphofructokinase [Homo sapiens]	gb AAA79220.1	100%	101	3	
	R					93%	394	347	
HODGZ63	HODGZ63	1493	blastx.2	putative [Caenorhabditis elegans]	gb AAA28195.1	49%	190	462	
	R					57%	470	532	
HODHD23	HODHD23	1495	blastx.2	fused-ccdB [Escherichia coli]	emb CAA71575.1	92%	24	104	
	R								
HODHE54	HODHE54	1498	blastx.2	lysyl oxidase-like protein [Homo sapiens]	gb AAA50162.1	100%	24	323	
	R					96%	323	418	
						32%	94	348	
HODHE88	HODHE88	1499	blastx.2	(AK001737) unnamed protein product [Homo sapiens]	dbj BAA91871.1	83%	29	196	
	R								
HODHG56	HODHG56	1500	blastx.2	(AF151888) CGI-130 protein [Homo sapiens]	gb AAD34125.1 AF151888_1	100%	121	231	
	R								
HODHK86	HODHK86	1503	blastx.2	(AB005299) BAI 3 [Homo sapiens]	dbj BAA25363.1	93%	2	289	
	R					88%	413	568	
						48%	207	590	
HODJL36	HODJL36R	1505	blastx.2	(AL031177)	emb CAA20118.1	40%	254	436	

A				dJ889N15.2.2 (26S Proteasome subunit p28 (Ankyrin 1		32%	26	118
HODJZ09	HODJZ09R	1506	blastx.2	prepronociceptin [Homo sapiens]	emb CAA66039.1	98%	64	558
HODKB82	HODKB82	1508	blastx.2	serine/threonine kinase [Rattus norvegicus]	emb CAB06294.1	96% 28%	3 348	338 473
HODKD64	HODKD64 R	1514	blastx.2	(AL096881) hypothetical protein [Homo sapiens]	emb CAB51405.1	66%	503	333
HODKK26	HODKK26 R	1519	blastx.2	calmodulin [Homo sapiens]	dbj BAA08302.1	99% 45% 34% 100% 75%	59 41 38 463 417	424 286 391 507 464
HODKK40	HODKK40 R	1520	blastx.2	ribosomal protein S6 [Homo sapiens]	gb AAA60289.1	99%	1	624
HODKK73	HODKK73 R	1521	blastx.2	acidic ribosomal phosphoprotein (P0) [Homo sapiens]	gb AAA36470.1	96% 71% 28%	3 331 416	344 651 682
HODKN65	HODKN65 R	1526	blastx.2	homologue to elongation factor 1- gamma from A.salina [Homo sapiens]	emb CAA45089.1	76%	5	538
HOECR39	HOECR39R	1527	blastx.2	(AF216306) DCRC-1 [Mus musculus]	gb AAF32294.1 AF2 16306_1	58%	116	424
HOFAB77	HOFAB77R	1528	blastx.2	(AC007193) PPP5_HUMAN [Homo sapiens]	gb AAD22669.1 AC0 07193_3	80% 47%	16 450	489 512

HOFMF79	HOFMF79 RA	1530	blastx.2	cytochrome b [Canis familiaris]	gb AAD04775.1	80% 38%	4 305	339 430
HOFMJ88	HOFMJ88R	1531	blastx.2	receptor protein-tyrosine kinase [Homo sapiens]	gb AAA61139.1	76%	17	370
HOFMM8 4	HOFMM84 R	1533	blastx.2	hydroxymethylglutaryl-CoA reductase (NADPH) (EC 1.1.1.34) - mouse (fragments)	pir A43533 A43533	72% 85%	112 254	252 274
HOFMN93	HOFMN93 R	1534	blastx.2	(AF133669) ARL-6 interacting protein-1 [Mus musculus]	gb AAD33046.1 AF133669_1	61% 84%	36 214	299 327
HOFMP59	HOFMP59 R	1535	blastx.2	mitochondrial acetoacetyl-CoA thiolase [Homo sapiens]	dbj BAA01387.1	77% 83%	1 369	360 422
HOFMT68	HOFMT68 R	1536	blastx.2	RNase L inhibitor [Mus musculus]	gb AAC24730.1	52% 40%	137 264	547 581
HOFMT69	HOFMT69 R	1537	blastx.2	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN M (HNRNP M).	sp P52272 ROM_HUMAN	80% 75% 39%	127 27 98	264 122 316
HOFMU92	HOFMU92 R	1538	blastx.2	(AP000694) chromatin assembly factor 1, subunit B (p60) [Homo sapiens]	dbj BAA89426.1	63%	124	432
HOFNF63	HOFNF63R	1540	blastx.2	phosphomannomutase [Homo sapiens]	gb AAC51368.1	70%	26	478
HOFNF76	HOFNF76R	1541	blastx.2	(AB002806) OS-9	dbj BAA24363.1	94%	17	370

HOFNG51	HOFNG51 R	1542	blastx.2	isoform 2 is missing nt 1642-1806; OS-9 1 (AB006679) ATP binding protein [Homo sapiens]	dbj BAA21881.1	79%	157	414
HOFNK44	HOFNK44 R	1543	blastx.2	osteonectin precursor [Bos taurus]	gb AAA30678.1	96%	19	186
HOFNY53	HOFNY53 R	1544	blastx.2	(AL034417) bK215D11.1 (RNA- binding protein regulatory subunit) [Homo sapiens]	emb CAB52550.1	91%	17	232
HOFOB65	HOFOB65R	1545	blastx.2	pyruvate dehydrogenase E1- alpha precursor [Homo sapiens]	gb AAA60055.1	74%	16	600
HOFOB79	HOFOB79R P00A	1546	blastx.2	KERATIN TYPE II CYTOSKELETAL 8 (FRAGMENT).	sp Q29386 Q29386	84%	80	397
HOFOE22	HOFOE22R	1547	blastx.2	activin receptor type I [Bos taurus]	gb AAB02696.1	98%	22	345
HOFOF47	HOFOF47R	1548	blastx.2	(AF129075) T- COMPLEX PROTEIN 1, THETA SUBUNIT (TCP-1-THETA) [Homo sapiens]	gb AAD17375.1	98% 62% 100%	18 245 244	242 460 270
HOFOF56	HOFOF56R	1549	blastx.2	protein disulfide isomerase [Mus musculus]	gb AAA39906.1	85% 57% 64% 36%	115 109 35 204	219 219 115 350

HOGCF48	HOGCF48R	1553	blastx.2	hepatitis C-associated microtubular aggregate protein p44 [Homo sapiens]	dbj BAA06043.1	40%	263	352
HOGCG83	HOGCG83 R	1554	blastx.2	keratin [Homo sapiens]	emb CAA31695.1	79% 81% 59%	50 309 21	310 482 113
HOGCI28	HOGCI28R	1556	blastx.2	complement component C3 [Homo sapiens]	gb AAA85332.1	93% 83%	3 173	179 337
HOGCJ10	HOGCJ10R	1557	blastx.2	(AF032667) rexo70 [Rattus norvegicus]	gb AAC01579.1	94%	103	471
HOGCJ55	HOGCJ55R	1559	blastx.2	Grb14 [Homo sapiens]	gb AAC15861.1	95%	13	459
HOGCT44	HOGCT44 R	1562	blastx.2	casein kinase I-alpha [Homo sapiens]	gb AAC41760.1	100%	31	183
HOGCV85	HOGCV85 R	1563	blastx.2	heparin binding protein [Homo sapiens]	gb AAA58636.1	76% 73%	3 398	521 535
HOGCV93	HOGCV93 R	1564	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	79%	43	504
HOGCY12	HOGCY12 R	1565	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	97% 41%	8 302	340 547
HOGCY58	HOGCY58 R	1566	blastx.2	lipocortin II [Homo sapiens]	dbj BAA00013.1	94% 70% 30%	3 332 150	329 517 326
HOGCY74	HOGCY74 R	1567	blastx.2	extracellular matrix protein BM-40 (AA 1 -	emb CAA68724.1	100%	3	260

HOGDD29	HOGDD29 R	1568	blastx.2	303) [Homo sapiens] drebrin E2 [Homo sapiens]	gb AAA16256.1	88%	3	152
HOGDG03	HOGDG03 R	1570	blastx.2	l-caldesmon II [Homo sapiens]	dbj BAA14419.1	95% 87%	191 393	388 491
HOGDI44	HOGDI44R	1572	blastx.2	neutrophil gelatinase associated lipocalin [Homo sapiens]	emb CAA58127.1	100%	55	192
HOGDO25	HOGDO25 R	1574	blastx.2	XIAP associated factor-1 (ZAP-1) [Homo sapiens]	emb CAA68030.1	100%	2	163
HOGDO58	HOGDO58 R	1575	blastx.2	acidic ribosomal phosphoprotein (P0) [Homo sapiens]	gb AAA36470.1	65%	86	373
HOGDP10	HOGDP10 R	1576	blastx.2	keratin [Homo sapiens]	emb CAA73943.1	89%	3	287
HOGDQ95	HOGDQ95 R	1578	blastx.2	FUSE binding protein 3 [Homo sapiens]	gb AAC50893.1	90% 32% 62% 48%	70 157 390 413	435 378 461 493
HOGDR70	HOGDR70 R	1579	blastx.2	gamma subunit of CCT chaperonin [Homo sapiens]	emb CAA52808.1	83%	102	578
HOGDV93	HOGDV93 R	1580	blastx.2	glyceraldehyde 3-phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AAA52496.1	98%	4	414
HOGEA27	HOGEA27	1581	blastx.2	cytokeratin 8 [Homo sapiens]	gb AAA35763.1	81%	2	160

	R			sapiens]				
HOGED85	HOGED85 R	1582	blastx.2	AP-3 complex beta3A subunit [Homo sapiens]	gb AAD03778.1	75%	3	482
HOGK25	HOGK25 R	1583	blastx.2	HLA-Aw34.2 antigen [Homo sapiens]	emb CAA43874.1	85% 25%	305 6	445 173
HOGEN30	HOGEN30 R	1584	blastx.2	regulatory subunit RI alpha [Homo sapiens]	emb CAA01027.1	91%	38	316
HOGEP69	HOGEP69R	1587	blastx.2	(AF056182) G-protein beta subunit [Emmericella nidulans]	gb AAC33436.1	83%	140	322
HOGET60	HOGET60R	1588	blastx.2	Plakoglobin [Homo sapiens]	gb AAA64895.1	75% 78%	83 219	205 260
HOGEW58	HOGEW58 R	1590	blastx.2	focal adhesion kinase [Homo sapiens]	gb AAA35819.1	67%	155	367
HOGEZ03	HOGEZ03R	1592	blastx.2	kinase [Homo sapiens]	emb CAA65450.1	96%	4	414
HOOHL68	HOOHL68 R	1601	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	87% 83%	52 18	144 53
HOOHP84	HOOHP84 R	1602	blastx.2	(AF013215) ribosomal protein S2 [Bos taurus]	gb AAB65437.1	92%	373	543
HOOHQ09	HOOHQ09 R	1603	blastx.2	pfxblue fusion protein [synthetic construct]	gb AAA72865.1	82%	1	156
HOOHQ83	HOOHQ83 R	1604	blastx.2	(AB00910) ribosomal protein [Sus scrofa]	dbj BAA19210.1	63%	292	423
HOOHR81	HOOHR81 R	1605	blastx.2	pfxblue fusion protein [synthetic construct]	gb AAA72865.1	100%	85	399
HOOHT13	HOOHT13	1608	blastx.2	steroid receptor TR2-11	gb AAA36761.1	73% 78%	336 464	458 505
						95%	3	188

	R				[Homo sapiens]			95%	193	264
HOOIA46	HOOIA46R	1610	blastx.2		cpn10 protein [Bos taurus]	emb CAA49288.1		100%	3	239
HOOIB54	HOOIB54R	1613	blastx.2		ribosomal protein L23a [Homo sapiens]	gb AAB17510.1		75%	89	199
HOOIG71	HOOIG71R	1615	blastx.2		ribosomal protein L27 [Homo sapiens]	gb AAA19815.1		98%	2	250
HOOIN84	HOOIN84R	1624	blastx.2		IEF 7442 [Homo sapiens]	emb CAA51360.1		100%	4	189
HOOJT32	HOOJT32R	1629	blastx.2		ribosomal protein L23a [Homo sapiens]	gb AAA03341.1		76%	34	237
HOOJT65	HOOJT65R	1630	blastx.2		(AJ388520) Ribosomal protein [Canis familiaris]	emb CAB46822.1		88%	43	123
HOOJY44	HOOJY44R	1636	blastx.2		human homologue of rat phosphatidylinositol 3-kinase binding protein [Homo sapiens]	dbj BAA03684.1		100%	2	184
HOOJY80	HOOJY80R	1637	blastx.2		cytochrome b5 [Homo sapiens]	gb AAA35729.1		98%	61	462
HOOJY92	HOOJY92R	1638	blastx.2		mitochondrial matrix protein [Homo sapiens]	gb AAA60127.1		98% 91% 66% 62%	48 403 513 341	344 513 686 445
HOOKN43	HOOKN43R	1640	blastx.2		ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1		63%	124	399
HOPJF95	HOPJF95R	1643	blastx.2		nucleolar protein p40	gb AAB46731.1		91%	209	511

HOPJG60	HOPJG60R	1644	blastx.2	[Homo sapiens] (AF161386) HSPC268 [Homo sapiens]	gb AAF28946.1 AF1 61386 1	90%	130	219
HOPJG79	HOPJG79R	1646	blastx.2	prosomal P27K protein [Homo sapiens]	emb CAA42052.1	97%	3	551
HOPJH65	HOPJH65R	1650	blastx.2	C gamma 3 [Homo sapiens]	emb CAA27268.1	57%	535	594
HOPKA06	HOPKA06 R	1656	blastx.2	homeotic protein HOX4E - human	pir A42008 A42008	46%	42	476
HOPKG16	HOPKG16 R	1659	blastx.2	scar protein [Homo sapiens]	gb AAA36597.1	44%	182	460
HOPKG47	HOPKG47 R	1660	blastx.2	(AL050318) dJ977B1.5 (myosin regulatory light chain 2, smooth muscle isoform) [Homo sapiens]	emb CAB75369.1	34%	172	543
HOPKG83	HOPKG83 R	1661	blastx.2	elongation factor-1- beta [Homo sapiens]	emb CAA43019.1	100%	2	49
HOPKK38	HOPKK38 R	1662	blastx.2	(AF077539) contains similarity to human melanoma antigen p15 (GB: U19796) [Caenorhabditis elegans]	gb AAC26291.1	95%	2	655
HOPKN14	HOPKN14 R	1663	blastx.2	aldolase A (EC 4.1.3.13) [Homo sapiens]	gb AAA51690.1	98%	1	432
						98%	46	519
						83%	525	560
						99%	34	594
						50%	584	709
						84%	615	653
						34%	60	380
						61%	379	417
						100%	2	460

HOPKN67	HOPKN67 R	1664	blastx.2	17,000 dalton myosin light chain [Bos taurus]	emb CAA38722.1	94%	31	483
HOPKO04	HOPKO04 RA	1665	blastx.2	(AL137423) hypothetical protein [Homo sapiens]	emb CAB70733.1	96%	1	81
HOPKO61	HOPKO61 R	1666	blastx.2	Six5 [Mus musculus]	dbj BAA11824.1	76%	4	405
HOPKP45	HOPKP45R	1667	blastx.2	PAX8=paired-box- protein [alternatively spliced] [human, 1	gb AAB34216.1	90%	285	527
						90%	154	285
						41%	494	601
						35%	385	435
HOPKQ20	HOPKQ20 R	1668	blastx.2	ribosomal protein S20 [Homo sapiens]	gb AAA60286.1	82%	115	435
HOPKQ82	HOPKQ82 R	1669	blastx.2	(AF063243) ribosomal protein L30 [Bos taurus]	gb AAC16388.1	89%	28	498
HOPKR56	HOPKR56R	1670	blastx.2	unnamed protein product [Homo sapiens]	emb CAA02873.1	100%	6	173
HOPKU33	HOPKU33 R	1671	blastx.2	ribosomal protein L11 [Homo sapiens]	gb AAC15856.1	86%	5	514
HOVBK49	HOVBK49 R	1674	blastx.2	(AL080125) hypothetical protein [Homo sapiens]	emb CAB45723.1	85%	12	155
						80%	21	155
						75%	21	155
						70%	21	170
						79%	21	152
						60%	21	203
						73%	21	155
						66%	21	155
						63%	21	152

HOVBS15	HOVBS15R	1675	blastx.2	(AF105715) ubiquitous nuclear protein [Gallus gallus]	gb AAD46422.1 AF105715_1	61%	12	152
						63%	21	152
						40%	112	369
						40%	121	375
						38%	121	375
						38%	121	372
						36%	121	375
						46%	24	170
						34%	121	375
						34%	121	375
						32%	121	375
						38%	27	173
						42%	258	407
						34%	178	369
						36%	258	407
						37%	264	407
						34%	261	407
						39%	264	407
						34%	258	407
						32%	258	407
						31%	261	401
						30%	258	407
						36%	27	152
						52%	243	305
						28%	42	146
HOVBS15	HOVBS15R	1675	blastx.2	(AF105715) ubiquitous nuclear protein [Gallus gallus]	gb AAD46422.1 AF105715_1	50%	246	434
						55%	50	109
						34%	112	249
HOVBX41	HOVBX41R	1676	blastx.2	(AF025331) receptor for activated protein	gb AAB81618.1	86%	182	319
						75%	340	399

HOVCN03	HOVCN03 R	1678	blastx.2	kinase C [Oreochromis niloticus] (AJ005798) thyroid hormone receptor alpha 2 [Sus scrofa]	emb CAA06702.1	72%	309	341
HOVCU89	HOVCU89 R	1680	blastx.2	ribosomal protein L18a - rat	pir S03957 R5RT18	72%	36	578
HOVCV33	HOVCV33 R	1681	blastx.2	alpha-smooth muscle actin [Oryctolagus cuniculus]	emb CAA43139.1	92% 50%	1 287	321 454
HOVCW45	HOVCW45 R	1682	blastx.2	(AL137585) hypothetical protein [Homo sapiens]	emb CAB70827.1	97% 100% 80% 21% 23%	2 372 463 5 35	220 464 522 196 190
HOVCZ45	HOVCZ45 R	1684	blastx.2	retrovirus-related polyprotein pseudogene - human 1	pir A44282 A44282	65% 61%	2 444	361 506
HOVDB61	HOVDB61 R	1686	blastx.2	(AF067728) transactivating protein BRIDGE [Rattus norvegicus]	gb AAD32925.1 AF067728_1	89%	91	204
HOVDB65	HOVDB65 R	1688	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	112	282
HOVDG71	HOVDG71 R	1692	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	75% 81% 27%	116 3 103	226 98 210
HOVDH09	HOVDH09 R	1693	blastx.2	binding protein [Homo sapiens]	gb AAA36032.1	98% 81%	15 405	299 485

HOVDH75	HOVDH75 R	1694	blastx.2						81% 44%	316 299	381 433
HOVDV70	HOVDV70 R	1696	blastx.2		ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1 (AF151866) CGI-108 protein [Homo sapiens]	gb AAB00807.1			81%	121	297
HOVEF34	HOVEF34R	1703	blastx.2		MTHSP75 [Homo sapiens]	gb AAD34103.1 AF1 51866 1			69%	126	254
HOVEF81	HOVEF81R	1704	blastx.2		thyroid receptor interactor [Homo sapiens]	gb AAA67526.1			71% 90%	246 580	611 612
HOVEL51	HOVEL51R	1707	blastx.2		cytochrome c-1 [Homo sapiens]	gb AAA73877.1			99%	49	393
HOVEY58	HOVEY58 R	1712	blastx.2		ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1	gb AAA52135.1			71% 77%	96 21	209 47
HOVJJ09	HOVJJ09R	1717	blastx.2		Lutheran blood group glycoprotein [Homo sapiens]	gb AAB00807.1			93%	277	369
HOVJR56	HOVJR56R	1718	blastx.2		macrophage migration inhibitory factor [Homo sapiens]	emb CAA58449.1			100%	28	576
HOVJU75	HOVJU75R	1719	blastx.2		laminin-binding protein [Homo sapiens]	gb AAA21814.1			100%	4	186
HOVJW17	HOVJW17 R	1720	blastx.2		HLA-DR-beta-A [Homo sapiens]	emb CAA00596.1			92%	64	648
HOVJY68	HOVJY68R	1721	blastx.2		23 kD highly basic protein [Homo sapiens]	emb CAA40254.1			94% 97%	217 15	570 221

HOVKE66	HOVKE66 R	1723	blastx.2	unnamed protein product [unidentified]	emb CAB69339.1	35%	149	241
HOVKG18	HOVKG18 R	1725	blastx.2	PBG-D (aa 1-344) [Homo sapiens]	emb CAA27801.1	98%	2	487
HPAMB11	HPAMB11 R	1726	blastx.2	transformation-related protein [Homo sapiens]	gb AAA36776.1	66%	353	601
HPAMB60	HPAMB60 R	1727	blastx.2	poly(A)-binding protein [Homo sapiens]	gb AAD08718.1	80% 41% 31% 38%	2 65 65 496	679 556 553 684
HPAMB93	HPAMB93 R	1729	blastx.2	heat-shock protein [Canis familiaris]	gb AAA87172.1	74% 95%	17 231	253 299
HPAMC04	HPAMC04 R	1730	blastx.2	ADP-ribosylation factor [Homo sapiens]	gb AAA57126.1	50%	140	331
HPAMC19	HPAMC19 R	1731	blastx.2	Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb CAA56869.1	94%	89	676
HPAMC27	HPAMC27 R	1732	blastx.2	protein synthesis initiation factor 4A [Mus musculus]	emb CAA40268.1	88% 50%	64 746	786 805
HPAMC90	HPAMC90 R	1733	blastx.2	HBp15/L22 [Sus scrofa]	dbj BAA04547.1	97%	84	464
HPAMD56	HPAMD56 R	1734	blastx.2	isolog of yeast suil and rice gos2; putative [Homo sapiens]	gb AAA60602.1	99%	136	456
HPAME35	HPAME35 R	1735	blastx.2	amphiglycan [Homo sapiens]	emb CAA47406.1	80%	26	451

HPAMF16	HPAMF16 R	1737	blastx.2	actin [Dictyostelium discoideum]	gb AAA74186.1	45%	178	414
HPAMF38	HPAMF38 R	1738	blastx.2	(AF132970) CGI-36 protein [Homo sapiens]	gb AAD27745.1 AF1 32970.1	73%	452	520
HPAMG44	HPAMG44 R	1739	blastx.2	(AC004393) Similar to ribosomal protein L17 gb X62724 from 1 1	gb AAC18792.1	42%	619	732
HPAMG54	HPAMG54 R	1740	blastx.2	(AF039752) histone deacetylase-2; HD-2 [Gallus gallus]	gb AAB96924.1	76%	63	434
HPAMI11	HPAMI11R	1741	blastx.2	ribosomal protein S8 [Homo sapiens]	emb CAA47670.1	61%	331	612
HPAMJ71	HPAMJ71R	1742	blastx.2	ribosomal protein S7 [Homo sapiens]	emb CAA81022.1	59%	117	374
HPAMQ76	HPAMQ76 R	1744	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	94%	75	389
HPAMT47	HPAMT47 R	1745	blastx.2	(AF017153) putative RNA helicase and RNA dependent ATPase [Mus musculus]	gb AAC36129.1	95%	394	516
HPAMU33	HPAMU33 R	1746	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	77%	518	661
HPAMW4	HPAMW44 R	1748	blastx.2	(AC006127) BRG-1- HUMAN [AA 812- 1440]; nuclear protein GRB1; 1 1 SNF2L4	gb AAC97986.1	68%	627	701
						87%	11	592
						97%	62	397
						64%	412	609
						63%	405	494
						100%	2	190
						100%	381	509
						98%	2	493
						80%	472	600
						69%	4	354
						91%	221	358
						42%	46	159

HPAMY45	HPAMY45 R	1749	blastx.2	[Homo sapiens] (AC004908) similar to ribosomal protein L23a; similar to P29316 (PID:g132848) [Homo sapiens]	gb AAD05196.1	95% 92%	294 220	563 297
HPAMZ14	HPAMZ14 R	1750	blastx.2	triosephosphate isomerase [Rattus norvegicus]	gb AAA42278.1	93% 61%	20 508	508 600
HPAMZ15	HPAMZ15 R	1751	blastx.2	(AJ006776) IF2 protein [Homo sapiens]	emb CAB44357.1	95%	3	149
HPAMZ81	HPAMZ81 R	1752	blastx.2	SP-40,40 prepropeptide (AA -22 to 427) [Homo sapiens]	emb CAA32847.1	99% 62%	3 581	599 676
HPANA05	HPANA05 R	1753	blastx.2	cell surface glycoprotein [Homo sapiens]	gb AAA36033.1	99% 61% 88%	107 466 579	487 729 605
HPANA07	HPANA07 R	1754	blastx.2	nucleolin [Homo sapiens]	gb AAA59954.1	92% 34% 58%	7 19 626	678 678 697
HPANA28	HPANA28 R	1755	blastx.2	cell surface glycoprotein [Homo sapiens]	gb AAA36033.1	100%	2	376
HPANB32	HPANB32R	1757	blastx.2	(AF078820) high mobility group protein [Spalax ehrenbergi]	gb AAC27653.2	93%	5	235
HPANE49	HPANE49R	1759	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	99%	8	412
HPANE52	HPANE52R	1760	blastx.2	23 kD highly basic	emb CAA40254.1	95%	13	624

HPANE87	HPANE87R	1761	blastx.2	protein [Homo sapiens] lactate dehydrogenase B [Homo sapiens]	emb CAA32033.1	82%	119	592
HPANJ67	HPANJ67R	1762	blastx.2	lipocortin II [Homo sapiens]	dbj BAA00013.1	48%	34	174
HPCOJ59	HPCOJ59R	1766	blastx.2	predicted using Genefinder; Similarity to Drosophila RNA 1 this gene [Caenorhabditis elegans]	emb CAB01127.1	100%	3	119
HPCOL81	HPCOL81R	1770	blastx.2	histone H2A.Z (AA 1-127) [Bos taurus]	emb CAA36554.1	32%	60	260
HPCOO90	HPCOO90R	1771	blastx.2	ribosomal protein L37a [Homo sapiens]	gb AAA60280.1	100%	36	179
HPCOO95	HPCOO95R	1772	blastx.2	HYPOTHEITICAL PROTEIN (FRAGMENT).	sp Q16465 YZA1_HUMAN	98%	60	335
HPCOP23	HPCOP23R	1773	blastx.2	ribosomal protein [Homo sapiens]	gb AAA16105.1	100%	337	2
HPCOR52	HPCOR52R	1778	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	88%	53	427
HPCOV35	HPCOV35R	1780	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	94%	136	306
HPCOV41	HPCOV41R	1781	blastx.2	Csa-19 [Homo sapiens]	gb AAA86463.1	94%	244	414
HPCPD26	HPCPD26R	1784	blastx.2	alpha subunit (aa 1-394) [Bos taurus]	emb CAA27137.1	97%	54	356
							3	314

HPCPH52	HPCPH52R	1788	blastx.2	antizyme inhibitor [Homo sapiens]	dbj BAA23593.1	100%	3	101
HPCPU27	HPCPU27R	1790	blastx.2	enhancer factor I chain A-D - rat	pir JC2022 JC2022	61%	3	185
HPCQT88	HPCQT88R	1797	blastx.2	integrin associated protein [Homo sapiens]	emb CAA80977.1	93% 90%	1 422	327 451
HPCQX47	HPCQX47R	1800	blastx.2	ribosomal protein L7a large subunit [Homo sapiens]	gb AAA60282.1	97% 92%	222 2	326 40
HPCTD21	HPCTD21R	1802	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	336	506
HPCTD23	HPCTD23R	1803	blastx.2	putative progesterone binding protein [Homo sapiens]	emb CAA73248.1	98%	2	190
HPCTD25	HPCTD25R	1804	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	374	544
HPCTF29	HPCTF29R	1806	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	209	379
HPCTF83	HPCTF83R	1807	blastx.2	major histocompatibility complex class II antigen beta chain, 1 Partial Mutant, 57 aa [Homo sapiens]	gb AAB28826.1	92%	58	177
HPCTI86	HPCTI86R	1809	blastx.2	H+-ATP synthase subunit b [Homo sapiens]	emb CAA42782.1	99%	1	306

HPCTO69	HPCTO69R	1811	blastx.2	(AF042857) lung cancer antigen NY-LU-12 variant A [Homo sapiens]	gb AAC05826.1	99%	77	538
HPCTV40	HPCTV40R	1815	blastx.2	ribosomal protein L35a (aa 1-110) [Rattus norvegicus]	emb CAA27193.1	99%	48	377
HPCTV53	HPCTV53R	1816	blastx.2	8.2 kDa differentiation factor [Homo sapiens]	emb CAA56100.1	85% 91% 100%	26 138 250	148 248 318
HPCTV92	HPCTV92R	1817	blastx.2	(AL117452) hypothetical protein [Homo sapiens]	emb CAB55934.1	85%	20	205
HPCTX22	HPCTX22R	1818	blastx.2	Aop1_Human, MER5(Aop1_Mouse)-like protein [Homo sapiens]	dbj BAA08389.1	100%	1	153
HPDOF81	HPDOF81R	1822	blastx.2	2,4-dienoyl-CoA reductase [Homo sapiens]	gb AAA67551.1	95% 64%	3 229	254 342
HPDOP05	HPDOP05R	1823	blastx.2	RNA polymerase II elongation factor-like protein [Homo sapiens]	emb CAA87392.1	100%	2	412
HPDOP20	HPDOP20R	1824	blastx.2	MHC HLA-DR-beta chain precursor old gene name 'HLA-DRA1' [Homo sapiens]	gb AAA59831.1	84%	45	542
HPDOS87	HPDOS87R	1825	blastx.2	40S ribosomal protein S14 [Podocoryne carnea]	emb CAA50506.1	95% 54% 91%	84 14 209	209 85 244

HPDOU54	HPDOU54 R	1826	blastx.2	N-acetyl-beta-glucosaminidase prepro-polypeptide [Homo sapiens]	gb AAA51828.1	54%	1	66
HPDOZ43	HPDOZ43R	1827	blastx.2	tripeptidyl peptidase II [Homo sapiens]	gb AAA63263.1	94%	64	489
HPDPC90	HPDPC90R A	1829	blastx.2	(AF073298) small EDRK-rich factor 2 [Homo sapiens]	gb AAC63516.1	98%	318	485
HPDPH14	HPDPH14R	1830	blastx.2	Q1Z 7F5 [Homo sapiens]	gb AAA36021.1	92% 87%	121 87	291 110
HPDPQ16	HPDPQ16R	1835	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	52%	349	519
HPDPR73	HPDPR73R	1836	blastx.2	(AJ010046) guanine nucleotide-exchange factor [Homo sapiens]	emb CAA08974.1	94%	131	460
HPDPS51	HPDPS51R	1837	blastx.2	(AF053356) ORF3, splicevariantc [Homo sapiens]	gb AAC78797.1	76%	2	214
HPDPS90	HPDPS90R	1838	blastx.2	(AB021643) gonadotropin inducible transcription repressor-3 [Homo sapiens]	dbj BAA86989.1	42% 36% 36% 32% 37% 48% 57% 60% 42%	128 125 125 155 292 325 325 325 325	337 319 319 319 399 402 387 384 402

HPDPX12	HPDPX12R P00B	1841	blastx.2	ribosomal protein S17 [Homo sapiens]			32%	390	518
HPDPY83	HPDPY83R P00B	1842	blastx.2	prothymosin alpha [Homo sapiens]			96%	199	393
HPDQC34	HPDQC34R	1843	blastx.2	(AF038129) polyubiquitin [Ovis aries]		gb AAA60284.1	85%	199	387
						gb AAB92373.1	95%	7	642
							94%	7	642
							97%	7	453
							94%	226	642
							64%	639	689
							61%	639	692
							61%	639	692
HPDQH11	HPDQH11 R	1845	blastx.2	ribosomal protein L37a [Homo sapiens]		gb AAA60280.1	100%	68	334
HPDQH34	HPDQH34 R	1846	blastx.2	(AF115850) PAR protein [Homo sapiens]		gb AAD09822.1	73%	3	371
							94%	345	494
							85%	226	267
							41%	178	240
HPDQI50	HPDQI50R	1847	blastx.2	succinate dehydrogenase flavoprotein subunit [Homo sapiens]		gb AAA20683.1	99%	18	539
HPDQI55	HPDQI55R	1848	blastx.2	(AL022577) dJ353H6.2.2 (SW1/SNF related, matrix associated, 1 (SNF2L1))		emb CAA18608.1	96%	1	441

					(PUTATIVE isoform 2) [Homo sapiens]					
HPDQR20	HPDQR20R	1851	blastx.2	1851	RNA polymerase II 140 kDa subunit [Homo sapiens]	emb CAA45124.1	91% 60%	10 555	639 761	
HPDQR88	HPDQR88R	1852	blastx.2	1852	similar to putative ATP-dependent RNA helicase K03H1.2 of C.elegans(S41025) [Homo sapiens]	dbj BAA13213.1	90% 80%	2 555	550 584	
HPDQS25	HPDQS25R	1854	blastx.2	1854	Cetg [Xenopus laevis]	emb CAA59350.1	85% 72%	4 258	264 410	
HPDQT32	HPDQT32R	1858	blastx.2	1858	neuroleukin [Homo sapiens]	gb AAA36368.1	100%	3	410	
HPDQU81	HPDQU81 R	1859	blastx.2	1859	(AF068227) putative transmembrane protein [Homo sapiens]	gb AAC27614.1	98%	3	269	
HPDQV07	HPDQV07 R	1860	blastx.2	1860	ribosomal protein S7 [Homo sapiens]	emb CAA81022.1	71%	35	574	
HPDQW39	HPDQW39 R	1862	blastx.2	1862	(AF133093) ARD-1 N- acetyltransferase homologue [Mus musculus]	gb AAF22155.1 AF1 33093_10	100% 70%	113 466	466 705	
HPDQX13	HPDQX13 R	1863	blastx.2	1863	Histone H3 [Asparagus officinalis]	emb CAA57811.1	72%	119	337	
HPDQY23	HPDQY23 R	1864	blastx.2	1864	DNA binding protein [Homo sapiens]	emb CAB10847.1	97%	3	443	
HPDQZ65	HPDQZ65R	1869	blastx.2	1869	(AF199488) beta-actin [Coturnix coturnix]	gb AAF13710.1 AF1 99488_1	100% 63%	3 446	443 694	

HPDRA44	HPDRA44R	1870	blastx.2	japonica] interferon regulatory factor 7 [Mus musculus]	gb AAB18626.1	72% 45%	4 362	240 559
HPDRA50	HPDRA50R	1871	blastx.2	actin [Diadromus pulchellus]	emb CAA62806.1	75%	16	189
HPDRF65	HPDRF65R	1872	blastx.2	ribosomal protein L8 [Homo sapiens]	emb CAA82248.1	58% 95% 50%	281 21 505	748 236 753
HPDRG73	HPDRG73R	1874	blastx.2	Ran [Canis familiaris]	emb CAA77980.1	94% 84%	50 451	460 528
HPDRM93	HPDRM93 R	1876	blastx.2	ribosomal protein L37 [Homo sapiens]	dbj BAA04888.1	86%	12	302
HPDRO04	HPDRO04R	1877	blastx.2	ribosomal protein L37 [Homo sapiens]	dbj BAA04888.1	100%	17	307
HPDRP36	HPDRP36R	1879	blastx.2	GLI-Krupple related protein [Homo sapiens]	gb AAA59467.1	100% 37% 78%	30 36 304	317 260 372
HPDRP41	HPDRP41R	1880	blastx.2	UHX1 protein [Homo sapiens]	gb AAC50450.1	88%	2	739
HPDRQ66	HPDRQ66R	1881	blastx.2	ribosomal protein [Homo sapiens]	emb CAA81488.1	91%	81	290
HPDRQ84	HPDRQ84R	1882	blastx.2	Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb CAA56869.1	79%	4	555
HPDRR71	HPDRR71R	1883	blastx.2	(AF081484) alpha- tubulin isoform 1 [Homo sapiens]	gb AAC31959.1	98% 100%	16 381	390 422

HPDRS46	HPDRS46R	1885	blastx.2	(AF195094) gamma actin-like protein [Mus musculus]	gb AAAF08293.1 AF195094_1	98% 69%	15 301	299 369
HPDRS87	HPDRS87R	1886	blastx.2	peptidylprolyl isomerase [Homo sapiens]	emb CAA37039.1	100%	14	508
HPDRT37	HPDRT37R	1888	blastx.2	leukocyte antigen F [Homo sapiens]	emb CAA34947.1	60%	3	560
HPDRU03	HPDRU03R	1890	blastx.2	(AL021366) cICK0721Q.4.1 (PHD finger protein 2) (isoform 2) [Homo sapiens]	emb CAA16159.1	98% 90%	59 247	244 276
HPDRU37	HPDRU37R	1891	blastx.2	HLA-A9HH antigen [Homo sapiens]	dbj BAA11936.1	96%	1	231
HPDRV73	HPDRV73R	1893	blastx.2	vimentin [Homo sapiens]	gb AAA61279.1	90%	4	573
HPDRW09	HPDRW09R	1895	blastx.2	MHC HLA-DR2(non-Dw2/non-Dw12)a glycoprotein beta-chain [Homo sapiens]	gb AAA36278.1	95%	1	222
HPDRY37	HPDRY37R	1897	blastx.2	type XVI collagen alpha 1 chain, alpha 1 (XVI) [human, 1]	gb AAB25797.1	64% 88% 50% 50% 48% 48% 52% 50% 44%	2 310 310 307 310 310 307 310 286	598 516 522 516 522 522 489 486 522

							498
						310	492
						280	504
						295	498
						310	522
						310	516
						295	492
						310	507
						310	522
						310	522
						280	489
						310	522
						295	489
						310	450
						310	522
						2	307
						310	477
						310	498
						280	492
						304	510
						14	304
						310	507
						289	498
						310	522
						280	456
						310	498
						295	492
						316	486
						2	88
						2	88

						43%	310	453
						41%	307	498
						64%	5	88
						58%	2	88
						41%	307	486
						62%	2	88
						43%	319	489
						61%	212	304
						40%	310	486
						54%	2	91
						44%	197	304
						42%	370	492
						30%	212	520
						31%	212	520
						58%	2	88
						58%	2	88
						48%	206	310
						58%	2	88
						55%	5	91
						43%	373	492
						45%	212	316
						55%	2	88
						56%	2	91
						38%	310	486
						32%	310	492
						50%	209	304
						38%	188	319
						57%	5	88
						54%	2	88
						57%	5	88

							57%	5	88
							58%	5	88
							55%	2	88
							55%	5	91
							51%	5	88
							55%	209	295
							48%	188	286
							53%	2	88
							51%	2	88
							54%	212	304
							48%	212	304
							55%	2	88
							55%	2	88
							55%	5	91
							50%	2	91
							46%	209	304
							41%	188	304
							45%	194	319
							48%	5	91
							42%	185	310
							51%	2	82
							45%	2	91
							47%	2	100
							41%	194	304
							51%	5	91
							46%	209	304
							40%	200	319
							36%	179	310
							55%	2	88
							47%	403	522

						46%	209	304
						44%	197	304
						53%	5	88
						50%	5	88
						51%	2	88
						41%	200	310
						53%	5	88
						44%	2	91
						53%	5	91
						45%	212	304
						48%	209	307
						54%	5	91
						48%	212	304
						45%	209	307
						53%	5	88
						45%	212	310
						42%	212	319
						51%	2	91
						43%	209	304
						45%	212	310
						47%	206	313
						46%	206	304
						40%	188	304
						48%	2	88
						53%	5	88
						53%	5	88
						48%	2	88
						46%	2	91
						50%	5	88
						42%	185	304

					41%	200	319
					46%	5	88
					48%	2	88
					46%	221	304
					45%	212	304
					50%	5	88
					48%	2	91
					48%	2	88
					48%	2	88
					47%	212	304
					53%	5	88
					42%	209	307
					44%	5	94
					46%	188	304
					41%	212	319
					37%	188	304
					58%	2	88
					48%	2	88
					50%	5	88
					51%	2	88
					52%	5	79
					50%	5	88
					44%	5	91
					51%	2	88
					50%	2	91
					46%	2	88
					46%	215	304
					45%	212	316
					40%	221	316
					50%	5	88

						41%	212	304
						41%	212	304
						40%	209	304
						48%	2	88
						44%	5	91
						50%	5	88
						44%	2	88
						48%	2	88
						51%	5	88
						48%	2	91
						48%	2	88
						45%	209	307
						43%	209	304
						45%	206	304
						41%	209	310
						41%	200	307
						54%	5	76
						52%	14	79
						48%	2	88
						50%	5	88
						50%	5	88
						41%	212	304
						42%	203	304
						38%	212	319
						50%	5	88
						45%	5	97
						45%	209	304
						38%	188	304
						36%	188	310
						52%	23	91

							48%	2	88
							48%	2	88
							48%	212	304
							41%	212	304
							38%	188	304
							52%	14	88
							44%	2	88
							51%	5	88
							41%	188	304
							40%	209	304
							40%	212	307
							40%	212	307
							48%	236	310
							41%	212	304
							40%	209	304
							37%	185	304
							35%	185	304
							53%	23	88
							46%	5	88
							54%	23	88
							50%	203	283
							44%	2	88
							41%	212	304
							43%	209	304
							61%	32	88
							51%	23	88
							50%	5	79
							41%	5	91
							40%	197	304
							50%	2	67

							91
						5	283
						188	88
						2	73
						5	310
						212	366
						310	274
						209	292
						212	304
						212	304
						212	595
						488	509
						432	67
						2	256
						200	67
						2	88
						5	506
						456	64
						2	532
						485	497
						399	520
						488	532
						488	532
						429	494
						491	532
						488	562
						451	522
						188	271
						488	520
						488	520

HPDRZ11	HPDRZ11R	1898	blastx.2	(AF012086) Ran. binding protein 2 [Homo sapiens]	gb AAC05596.1	40%	488	553
						63%	488	520
						50%	488	535
						44%	491	544
						42%	476	532
						37%	432	509
						40%	282	1
						31%	321	49
						32%	584	273
						40%	503	279
						36%	521	303
						42%	521	303
						60%	81	22
						53%	81	4
						53%	81	4
						44%	81	1
						55%	78	1
						50%	78	1
						56%	75	1
						48%	81	1
						53%	78	1
						52%	75	1
						48%	75	1
						42%	81	4
						44%	534	481
HPDRZ11	HPDRZ11R	1898	blastx.2	(AF012086) Ran. binding protein 2 [Homo sapiens]	gb AAC05596.1	98%	67	351
						48%	34	339
						60%	347	640
						50%	486	746
						46%	637	717

HPDRZ29	HPDRZ29R	1899	blastx.2	Lsc homologue [Homo sapiens]	emb CAA70356.1	50%	496	537
HPDVA01	HPDVA01R	1900	blastx.2	(AF153685) truncated calcium binding protein [Homo sapiens]	gb AAD51611.1 AF153685_1	81%	720	484
HPDVA06	HPDVA06R	1901	blastx.2	proteasome subunit HsN3 [Homo sapiens]	dbj BAA05647.1	87%	243	359
HPDVB70	HPDVB70R	1903	blastx.2	Ig mu chain C region, membrane-bound splice form - human	pir S16510 MHUM	93%	92	820
HPDVC28	HPDVC28R	1904	blastx.2	retrovirus-related polypeptide pseudogene - human 1	pir A44282 A44282	84%	62	436
HPDVG06	HPDVG06R	1906	blastx.2	immunoglobulin M heavy chain [Homo sapiens]	emb CAA47708.1	99%	3	326
HPDVI25	HPDVI25R	1908	blastx.2	APEX nuclease [Homo sapiens]	dbj BAA02633.1	83%	94	417
HPDVI95	HPDVI95R	1909	blastx.2	(AF067370) cytoplasmic dynein light chain; Tetex-1 [Bos taurus]	gb AAC39268.1	100%	3	338
HPDVK79	HPDVK79R	1911	blastx.2	TRANSCRIPTION FACTOR BTF3 (RNA POLYMERASE B TRANSCRIPTION 1)	sp Q64152 BTF3_MOUSE	77%	61	570
HPDVK93	HPDVK93R	1912	blastx.2	ribosomal protein L18a - rat	pir S03957 R5RT18	89%	116	634

HPDVL45	HPDVL45R	1914	blastx.2	cell cycle checkpoint control protein [Homo sapiens]	gb AAB39928.1	100%	4	303
HPDVL52	HPDVL52R	1915	blastx.2	hNop56 [Homo sapiens]	emb CAA72789.1	98% 56% 60% 29% 27% 31% 29% 28%	96 269 418 409 418 326 418 460	293 625 660 561 546 439 570 630
HPDVM61	HPDVM61R	1916	blastx.2	(AF123880) gag polypeptide [multiple sclerosis associated retrovirus element]	gb AAD48374.1	44%	5	268
HPDVM63	HPDVM63R	1917	blastx.2	(AF019036) human IgG1 neutralizing heavy chain with leader 1	gb AAF21613.1	97%	1	573
HPDVM86	HPDVM86R	1918	blastx.2	gamma-interferon-inducible protein precursor [Homo sapiens]	gb AAA36105.1	91% 100%	35 4	406 51
HPDVO67	HPDVO67R	1919	blastx.2	(AC005954) ZO-3 [Homo sapiens]	gb AAC72274.1	96% 84% 67% 41%	1 188 396 334	189 394 521 549
HPDVT37	HPDVT37R	1923	blastx.2	JUN-D protein [Mus musculus]	gb AAA39345.1	54% 78%	16 240	231 281
HPDVU28	HPDVU28	1924	blastx.2	protein phosphatase 2C	emb CAA74245.1	96%	163	693

	R				blastx.2	gamma [Homo sapiens] similar to the Drosophila splicing regulator, 1 [Homo sapiens]				
HPDVU72	HPDVU72 R	1925			blastx.2		gb AAA19604.1	100%	3	497
								37%	51	434
HPDVU88	HPDVU88 R	1926			blastx.2	glutathione peroxidase [Homo sapiens]	gb AAA67540.1	91%	51	599
HPDVV78	HPDVV78 R	1927			blastx.2	keratin 18 [Homo sapiens]	gb AAA59461.1	72%	595	648
HPDWA88	HPDWA88 R	1929			blastx.2	calcium binding protein [Homo sapiens]	dbj BAA23325.1	66%	129	638
								85%	2	124
HPDWC30	HPDWC30 R	1931			blastx.2	GlcNac-1-P transferase [Homo sapiens]	emb CAB04787.1	94%	168	473
								85%	285	404
HPDWD67	HPDWD67 R	1934			blastx.2	open reading frame (458 AA) [Homo sapiens]	emb CAA36054.1	79%	319	14
HPDWD69	HPDWD69 R	1935			blastx.2	ribosomal protein S26 [Homo sapiens]	gb AAC26987.1	100%	9	353
HPDWD81	HPDWD81 R	1936			blastx.2	HLA-DRB4*0103 [Homo sapiens]	emb CAB06483.1	99%	4	330
								63%	333	593
								75%	479	526
								44%	460	513
HPDWE11	HPDWE11 R	1937			blastx.2	polyadenylate binding protein [Homo sapiens]	gb AAB97309.1	82%	2	121
HPDWF93	HPDWF93 R	1939			blastx.2	Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb CAA56869.1	91%	16	483
HPDWL56	HPDWL56	1941			blastx.2	complement factor B	gb AAA16820.1	96%	83	379

[illegible]

HPDWU55	HPDWU55 R	1955	blastx.2	protein disulfide isomerase-related protein (PDIR) [Homo sapiens]	dbj BAA08451.1	94%	1	726
HPDWU60	HPDWU60 R	1956	blastx.2	(AF151063) HSPC229 [Homo sapiens]	gb AAF36149.1 AF1 51063.1	37%	1	624
HPDWU63	HPDWU63 R	1957	blastx.2	cytokeratin 15 (AA 1 - 456) [Homo sapiens]	emb CAA30535.1	27%	1	636
HSCPJ17	HSCPJ17R	1962	blastx.2	(AL031670) dJ681N20.2 (similar to FTLL1(ferritin, light 1	emb CAB43181.1	93%	176	565
HSDIA22	HSDIA22R	1963	blastx.2	ATPase 6 [Homo sapiens]	emb CAA24031.1	80%	598	657
HSDIX73	HSDIX73R	1965	blastx.2	NADH dehydrogenase subunit 4L [Homo sapiens]	dbj BAA07296.1	100%	2	370
HSDZJ21	HSDZJ21R	1968	blastx.2	cytochrome-c oxidase (EC 1.9.3.1) chain I - western lowland 1	pir C59153 C59153	97%	260	403
HSIFF84	HSIFF84R	1969	blastx.2	(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1	88%	405	485
HSKJR50	HSKJR50R	1970	blastx.2	translation initiation factor 3 47 kDa subunit [Homo sapiens]	gb AAD03467.1	77%	123	308
HSLHT27	HSLHT27R	1971	blastx.2	URF A6L (NADH dehydrogenase subunit)	emb CAA24030.1	87%	2	121
						47%	238	306
						86%	2	175
						100%	178	258
						82%	1	105
						78%	143	6
						86%	2	337
						98%	2	289
						50%	169	498
						49%	11	247
						45%	342	566
						80%	2	139
						66%	2	121

HSODB16	HSODB16R	1972	blastx.2	[Homo sapiens] cytochrome oxidase subunit II [Homo sapiens]	gb AAA20843.1	93%	1	651
HSPSB24	HSPSB24R	1973	blastx.2	(AF076191) gamma- actin [Trichosurus vulpecula]	gb AAC26520.1	90%	61	732
HSPSB70	HSPSB70R	1974	blastx.2	BBC1 [Homo sapiens]	emb CAA45963.1	100%	3	539
HSPSB74	HSPSB74R	1975	blastx.2	WT1 [Xenopus laevis]	dbj BAA11522.1	98%	1	162
HSPSB80	HSPSB80R	1976	blastx.2	unc-18homologue [Homo sapiens]	dbj BAA19482.1	92%	2	691
HSPSC30	HSPSC30R	1977	blastx.2	cell surface glycoprotein [Homo sapiens]	gb AAA36033.1	91% 83% 100%	124 4 309	318 180 374
HSPSE86	HSPSE86R	1978	blastx.2	(AF161507) HSPC158 [Homo sapiens]	gb AAF29122.1 AF1 61507_1	91% 62% 54%	3 302 477	338 667 626
HSPSG03	HSPSG03R	1979	blastx.2	protein phosphatase 2A 65 kDa regulatory subunit, alpha isoform [Sus scrofa]	emb CAA84414.1	100%	3	191
HSPSG13	HSPSG13R	1980	blastx.2	protein p68 (AA 1-614) [Homo sapiens]	emb CAA33751.1	95% 76%	221 738	739 788
HSPSG42	HSPSG42R	1981	blastx.2	(AF056490) cAMP- specific phosphodiesterase 8A [Homo sapiens]	gb AAC39763.1	98%	3	554
HSPSG50	HSPSG50R	1982	blastx.2	(AB036829) skeletal muscle and kidney	dbj BAA92340.1	80%	132	578

HSPSG89	HSPSG89R	1983	blastx.2	enriched inositol phosphatase [Homo sapiens]	gb AAC31959.1	97%	106	645
				(AF081484) alpha- tubulin isoform 1 [Homo sapiens]		66%	629	700
HSPSH39	HSPSH39R	1984	blastx.2	(AB015610) ribosomal protein S4X [Chlorocebus aethiops]	dbj BAA36501.1	87%	68	772
HSPSH41	HSPSH41R	1985	blastx.2	SP-40,40 prepropeptide (AA -22 to 427) [Homo sapiens]	emb CAA32847.1	94%	129	404
						95%	367	498
						69%	480	683
HSPSH49	HSPSH49R	1986	blastx.2	ribosomal protein S6 [Homo sapiens]	gb AAA60289.1	83%	96	821
HSPSI65	HSPSI65R	1987	blastx.2	ribosomal protein L5 [Homo sapiens]	gb AAA85654.1	89%	3	755
HSPSJ71	HSPSJ71R	1988	blastx.2	medium tumor antigen- associated 61-kD protein [Homo sapiens]	gb AAA35531.1	91%	2	346
						54%	660	749
HSPSJ72	HSPSJ72R	1989	blastx.2	BST-2 [Homo sapiens]	dbj BAA05679.1	92%	97	432
						98%	410	592
						50%	561	632
HSPSQ22	HSPSQ22R	1990	blastx.2	UbcH5C [Homo sapiens]	gb AAA91461.1	100%	7	339
HSPSQ57	HSPSQ57R	1991	blastx.2	(AF044671) MM46 [Homo sapiens]	gb AAD02337.1	100%	16	327
HSPSY67	HSPSY67R	1992	blastx.2	MITOGEN- ACTIVATED PROTEIN KINASE 3	sp P27361 MK03_H UMAN	99%	2	385
						51%	385	537
						47%	402	545

HSPSZ69	HSPSZ69R	1993	blastx.2	(EC 2.7.1.-) 1 1 1	unnamed protein product [unidentified]	emb CAB69291.1	98%	2	283
HSPTA57	HSPTA57R	1994	blastx.2		scar protein [Homo sapiens]	gb AAA36597.1	90%	285	317
HSPTN57	HSPTN57R	1995	blastx.2		(AB015610) ribosomal protein S4X [Chlorocebus aethiops]	dbj BAA36501.1	64%	337	735
							100%	318	338
HSSDM17	HSSDM17R	1996	blastx.2		(AL137714) hypothetical protein [Homo sapiens]	emb CAB70887.1	55%	2	157
							37%	178	360
							53%	356	400
HTLCU84	HTLCU84R	2001	blastx.2		RNA polymerase II elongation factor-like protein [Homo sapiens]	emb CAA87392.1	94%	55	210
							71%	185	541
HTSHG06	HTSHG06R	2002	blastx.2		URF 2 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24027.1	87%	107	364
							94%	1	105
HULAP70	HULAP70R	2005	blastx.2		cytochrome c oxidase subunit VIII precursor [Homo sapiens]	gb AAA99313.1	100%	251	349
HUSGA11	HUSGA11R	2006	blastx.2		carbonate dehydratase [Homo sapiens]	emb CAA59331.1	63%	220	471
							100%	183	218
HUVFA39	HUVFA39R	2009	blastx.2		extensin [Volvox carteri]	emb CAA46283.1	34%	460	92
							34%	436	8
HVCAA31	HVCAA31R	2010	blastx.2		myosin regulatory light chain [Homo sapiens]	gb AAA67367.1	98%	103	618
HVCAA37	HVCAA37R	2011	blastx.2		complement factor B [Homo sapiens]	gb AAA16820.1	96%	322	687
							88%	3	137
HVCAA94	HVCAA94R	2013	blastx.2		F-1-ATPase beta-	gb AAA30395.1	95%	1	435

	R				subunit precursor [Bos taurus]		50%	440	643
HVCAB02	HVCAB02 R	2014	blastx.2		calcyphosine [Homo sapiens]	emb CAA66609.1	100%	489	512
HVCAB03	HVCAB03 R	2015	blastx.2		40S ribosomal protein S12 [Sus scrofa]	emb CAA55946.1	92%	386	664
HVCAB18	HVCAB18 R	2016	blastx.2		human homolog of DnaJ protein [Homo sapiens]	dbj BAA02656.1	88%	133	288
HVCAB52	HVCAB52 R	2018	blastx.2		'human homologue of rat ribosomal protein L9' [Homo sapiens]	dbj BAA03401.1	98%	67	612
HVCAB57	HVCAB57 R	2019	blastx.2		glyceraldehyde 3-phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AAA52496.1	98%	1	333
HVCAB88	HVCAB88 R	2020	blastx.2		(AL022721) dJ109F14.2 (60S Ribosomal Protein RPL10A) [Homo sapiens]	emb CAB38627.1	70%	330	524
HVCAC42	HVCAC42 R	2021	blastx.2		diphtheria toxin receptor associated protein [Chlorocebus aethiops]	dbj BAA01569.1	99%	89	739
HVCAD52	HVCAD52 R	2022	blastx.2		translin [Homo sapiens]	emb CAA55341.1	67%	184	414
HVCAE01	HVCAE01 R	2023	blastx.2		laminin-binding protein [Homo sapiens]	gb AAA36161.1	86%	119	184
							38%	305	430
							72%	19	291
							99%	64	606
							47%	633	758

HVCAE15	HVCAE15 R	2024	blastx.2	lymphocyte antigen [Homo sapiens]	gb AAA59705.1	91%	3	695
HVCAE22	HVCAE22 R	2025	blastx.2	proteasome subunit C2 [Homo sapiens]	dbj BAA00656.1	97% 90%	86 489	487 554
HVCAE56	HVCAE56 R	2026	blastx.2	complement component C3 [Homo sapiens]	gb AAA85332.1	74%	75	707
HVCAG56	HVCAG56 R	2027	blastx.2	ribosomal protein L7 [Homo sapiens]	emb CAA37139.1	99%	3	551
HVCAH03	HVCAH03 R	2029	blastx.2	(AF030249) putative dienoyl-CoA isomerase [Homo sapiens]	gb AAB86485.1	96% 62%	63 577	599 657
HVCAH17	HVCAH17 R	2030	blastx.2	precursor [Homo sapiens]	emb CAA68392.1	90% 92%	1 299	294 340
HVCAH56	HVCAH56 R	2031	blastx.2	ribosomal protein L3 [Homo sapiens]	emb CAA51839.1	97%	3	407
HVCAI08	HVCAI08R	2032	blastx.2	(AF008304) protein inhibitor of neuronal nitric oxide synthase [Oryctolagus cuniculus]	gb AAC32530.1	100%	130	375
HVCAI79	HVCAI79R	2034	blastx.2	sortilin [Homo sapiens]	emb CAA66904.1	80%	2	559
HVCAJ27	HVCAJ27R	2035	blastx.2	(AK000449) unnamed protein product [Homo sapiens]	dbj BAA91172.1	99%	88	537
HVCAJ81	HVCAJ81R	2036	blastx.2	(AB036060) ubiquitin [Oncomorhynchus mykiss]	dbj BAA88568.1	100% 81%	97 404	405 469
HVCAJ95	HVCAJ95R	2037	blastx.2	(AF073298) small EDRK-rich factor 2	gb AAC63516.1	100%	34	210

HVCAK02	HVCAK02 R	2038	blastx.2	[Homo sapiens] hnRNP-E2 [Homo sapiens]	emb CAA55015.1	89% 90%	90 3	467 92
HVCAL06	HVCAL06 R	2039	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	96% 30% 39%	3 302 432	308 559 554
HVCAO17	HVCAO17 R	2040	blastx.2	Nm23 protein [Homo sapiens]	emb CAA35621.1	70%	4	531
HVCAO63	HVCAO63 R	2041	blastx.2	similar to tubulin alpha-2 chain [Caenorhabditis elegans]	emb CAA85463.1	76% 72% 47%	82 269 342	276 322 410
HVCAP89	HVCAP89R	2042	blastx.2	CTP synthetase homolog [Mus musculus]	gb AAB17729.1	83% 67% 29% 80%	69 509 520 681	512 643 669 710
HVCAQ53	HVCAQ53 R	2043	blastx.2	RPS16 [Homo sapiens]	gb AAA60583.1	100%	43	480
HVCAR87	HVCAR87 R	2045	blastx.2	glyceraldehyde 3-phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AAA52496.1	74%	54	536
HVCAS08	HVCAS08R	2046	blastx.2	triose-phosphate isomerase [Pan troglodytes]	gb AAA35438.1	74% 55%	77 609	796 803
HVCAS52	HVCAS52R	2047	blastx.2	proteasome subunit C8 [Homo sapiens]	dbj BAA00659.1	94%	1	579
HVCAU64	HVCAU64	2049	blastx.2	23 kD highly basic	emb CAA40254.1	97%	57	401

HVCBD18	R	2050	blastx.2	protein [Homo sapiens] (AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	59%	396	196
HVCBE76	HVCBE76R	2051	blastx.2	ribosomal protein L27 [Homo sapiens]	gb AAA19815.1	80%	215 139	153 107
HVCBF38	HVCBF38R	2053	blastx.2	neurofibromatosis type 1 protein [Homo sapiens]	gb AAA74897.1	85% 41% 71% 42% 88%	6 274 483 517 452	236 636 524 594 478
HVCBF89	HVCBF89R	2054	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	78% 70% 50%	41 666 590	325 725 679
HVCBG01	HVCBG01 R	2055	blastx.2	(AF184170) elongation factor 1-alpha [Sparus aurata]	gb AAD56406.1 AF1 84170_1	96% 37% 47% 40%	43 300 353 553	237 572 535 627
HVCBQ31	HVCBQ31 R	2056	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	90% 53% 45% 43%	65 327 328 482	343 647 663 559
HVCCA08	HVCCA08 R	2057	blastx.2	neurofibromatosis type- 1-GTPase activating- protein type III [Mus musculus]	dbj BAA06395.1	60%	23	256
HVCCK34	HVCCK34 R	2058	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	99%	94	696
HVCCV93	HVCCV93 R	2060	blastx.2	AICAR formyltransferase/IMP	gb AAA97405.1	92% 58%	206 454	454 648

HVCDD19	HVCDD19 R					cyclohydrolase bifunctional enzyme [Homo sapiens]		59%	564	674
HVCDF50	HVCDF50R	2062	blastx.2	2063	2062	1-8U [Homo sapiens]	emb CAA40626.1	98%	61	459
HVCDH77	HVCDH77 R	2064	blastx.2	2063	2064	similar to mouse Int-6 [Homo sapiens]	gb AAB58251.1	95% 63%	3 343	341 618
HVVAB37	HVVAB37 R	2066	blastx.2	2064	2066	3-methyl-adenine DNA glycosylase [Homo sapiens]	emb CAA93540.1	98%	2	640
HVVAC18	HVVAC18 R	2067	blastx.2	2066	2067	Ig mu chain C region - dog	pir A93131 MHDG	39% 40% 39% 65% 38%	215 78 61 2 294	700 401 267 61 347
HVVAE73	HVVAE73 R	2069	blastx.2	2067	2069	(AF035421) glyceraldehyde 3- phosphate dehydrogenase [Ovis 1]	gb AAB88484.1	47%	59	379
HVVAH91	HVVAH91 R	2071	blastx.2	2069	2071	(AJ001612) L-3- phosphoserine- phosphatase homologue [Homo sapiens]	emb CAA04865.1	91%	111	326
HVVAI03	HVVAI03R	2072	blastx.2	2071	2072	(AL050109) hypothetical protein [Homo sapiens]	emb CAB43277.1	87%	54	245
						ribosomal protein L31 (AA 1-125) [Homo sapiens]	emb CAA34066.1	98% 88% 61%	32 303 7	304 383 45

HVVAJ23	HVVAJ23R	2073	blastx.2	immunoglobulin lambda-chain [Homo sapiens]	gb AAA02915.1	80%	9	563
HVVAK46	HVVAK46 R	2077	blastx.2	v-fos transformation effector protein [Homo sapiens]	gb AAA58487.1	96% 61%	3 707	746 769
HVVAK85	HVVAK85 R	2079	blastx.2	unnamed protein product [unidentified]	emb CAA03726.1	94%	14	370
HVVAL81	HVVAL81 R	2080	blastx.2	phospholipase A2 [synthetic construct]	emb CAA01645.1	81%	157	471
HVVAS27	HVVAS27 RP00B	2082	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	99%	9	413
HVVAW2 6	HVVAW26 R	2083	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	74% 56% 78%	7 272 447	444 601 503
HVVD91	HVVD91 RP00B	2084	blastx.2	gamma non-muscle actin [Oryctolagus cuniculus]	emb CAA43140.1	99%	2	436
HVVB09	HVVB09R	2085	blastx.2	(AK001810) unnamed protein product [Homo sapiens]	dbj BAA91922.1	89%	3	206
HVVBH88	HVVBH88 R	2087	blastx.2	Na,K-ATPase alpha- subunit [Homo sapiens]	dbj BAA00061.1	74%	1	519
HVVB116	HVVB116R	2088	blastx.2	IgG [Homo sapiens]	gb AAA02914.1	69% 92%	32 577	562 618
HVVB08	HVVB08R	2089	blastx.2	(AB014876) ribosomal protein L13 [Cricetus griseus]	dbj BAA34291.1	81% 96% 52%	156 40 419	479 234 601
HVVB055	HVVB055R	2090	blastx.2	ribosomal protein S17	gb AAA60284.1	99%	9	413

	P00B			[Homo sapiens]				
HVVBK13	HVVBK13 R	2091	blastx.2	(AB022653) anti-Entamoeba histolytica immunoglobulin kappa 1	dbj BAA82102.1	88% 62% 43%	73 633 617	618 713 733
HVVBO65	HVVBO65 R	2092	blastx.2	immunoglobulin lambda light chain [Homo sapiens]	emb CAA75033.1	68%	12	623
HVVBO88	HVVBO88 R	2093	blastx.2	immunoglobulin heavy chain VH-III region [Homo sapiens]	gb AAA98800.1	82%	77	481
HVVBR70	HVVBR70 RP00B	2094	blastx.2	immunoglobulin lambda light chain [Homo sapiens]	emb CAA40958.1	68% 67%	20 318	334 491
HVVBT60	HVVBT60 R	2096	blastx.2	HYPOTHEITICAL PROTEIN (FRAGMENT).	sp Q16465 YZA1_HUMAN	100%	448	98
HVVCB04	HVVCB04 R	2098	blastx.2	heavy chain antibody 3D6 [synthetic construct]	emb CAA01549.1	69% 70% 30%	65 478 487	484 609 603
HVVCB08	HVVCB08 R	2099	blastx.2	(AB022653) anti-Entamoeba histolytica immunoglobulin kappa 1	dbj BAA82102.1	76%	73	735
HVVCC06	HVVCC06 R	2100	blastx.2	(AB005894) ecalectin [Homo sapiens]	dbj BAA31542.1	72% 85%	206 144	325 203
HVVCD81	HVVCD81 R	2102	blastx.2	glutathione S-transferase-pi [Homo sapiens]	gb AAA56823.1	96%	80	640

HVVCD90	HVVCD90 R	2104	blastx.2	type II mesothelial keratin K7 [Homo sapiens]	gb AAA36146.1	82%	98	748
HVVCE65	HVVCE65 R	2106	blastx.2	80K-H protein [Homo sapiens]	gb AAA52493.1	94%	2	214
HVVCF38	HVVCF38R	2107	blastx.2	immunoglobulin lambda light chain [Homo sapiens]	emb CAA37883.1	84%	114	467
HVVCG29	HVVCG29 R	2108	blastx.2	FB19 protein [Homo sapiens]	emb CAA73697.1	95%	1	375
						65%	1	384
						66%	1	375
						65%	19	375
						69%	19	375
						63%	19	375
						52%	19	378
						63%	1	285
						47%	19	387
						44%	19	378
HVVCG31	HVVCG31 R	2109	blastx.2	(AF061034) FIP2 [Homo sapiens]	gb AAC16046.1	44%	58	399
						70%	654	725
						91%	14	349
						98%	310	573
HVVCG46	HVVCG46 R	2110	blastx.2	phosphoglycerate kinase (EC 2.7.2.3) [Homo sapiens]	gb AAA60078.1	60%	576	773
						25%	361	540
HVVCG93	HVVCG93 R	2111	blastx.2	(AB021288) beta 2- microglobulin [Homo sapiens]	dbj BAA35182.1	100%	3	350
						100%	49	405

HVVCH28	HVVCH28 R	2112	blastx.2	(AF104913) eukaryotic protein synthesis initiation factor [Homo sapiens]	gb AAC82471.1	100%	3	350
HVVC128	HVVC128R	2113	blastx.2	extracellular matrix protein BM-40 (AA 1 - 303) [Homo sapiens]	emb CAA68724.1	100%	3	119
HVVC150	HVVC150R	2114	blastx.2	3D6 antibody light chain [synthetic construct]	emb CAA01550.1	89% 79% 75%	44 382 644	403 663 739
HVVC185	HVVC185R	2115	blastx.2	Ig gamma chain C region - chimpanzee	pir PT0207 PT0207	96% 80%	3 599	599 688
HVVCJ51	HVVCJ51R	2116	blastx.2	lysophosphatidic acid acyltransferase-beta [Homo sapiens]	gb AAB58776.1	94% 87%	1 273	261 371
HVVCK78	HVVCK78 R	2118	blastx.2	Ig light chain V11 region [Homo sapiens]	gb AAA20217.1	85% 77% 84%	27 242 298	248 307 336
HVVCL52	HVVCL52 R	2119	blastx.2	NuMA protein [Homo sapiens]	emb CAA77670.1	99%	1	339
HVVCL73	HVVCL73 R	2120	blastx.2	ribosomal protein small subunit [Homo sapiens]	gb AAA35682.1	100% 91%	14 674	583 775
HVVCM67	HVVCM67 R	2121	blastx.2	Immunoglobulin lambda chain [Homo sapiens]	gb AAC37563.1	95% 78%	3 283	284 378
HVVCM84	HVVCM84 R	2122	blastx.2	apoferritin H chain [Homo sapiens]	emb CAA25086.1	68%	3	407
HVVCN20	HVVCN20 R	2123	blastx.2	Hin-2 [Homo sapiens]	gb AAA64187.1	89% 71%	68 4	286 87

HVVCN54	HVVCN54 R	2125	blastx.2	[Human Ig rearranged gamma chain mRNA, V-J-C region and complete cds.], gene product [Homo sapiens]	gb AAA73002.1	70% 78%	17 17	388 337
HVVC013	HVVC013 R	2127	blastx.2	3D6 antibody light chain [synthetic construct]	emb CAA01550.1	79% 48%	8 549	550 695
HVVC016	HVVC016 R	2128	blastx.2	alpha SNAP [Homo sapiens]	gb AAC80170.1	96%	251	346
HVVC087	HVVC087 R	2129	blastx.2	(AF191829) heat-shock protein [Littorina plena]	gb AAF12788.1 AF1 91829_1	90% 51% 93%	30 359 457	389 469 501
HVVC041	HVVC041R	2130	blastx.2	(AB019120) seven transmembrane receptor [Rattus norvegicus]	dbj BAA82518.1	52% 54%	2 573	436 644
HVVC088	HVVC088R	2131	blastx.2	(AC002528) alpha2(I) collagen [Homo sapiens]	gb AAB69977.1	88% 50% 49% 48% 47% 48% 49% 51% 48% 47% 47% 50%	15 3 3 3 6 3 3 3 3 15 15 15	470 302 299 299 299 290 272 272 299 299 299 272

						47%	3	272
						46%	3	302
						53%	3	278
						48%	15	272
						46%	3	272
						45%	18	302
						51%	3	272
						45%	18	314
						47%	3	272
						46%	3	305
						49%	3	299
						45%	3	299
						44%	3	299
						45%	3	302
						45%	3	302
						48%	3	272
						45%	3	299
						51%	27	272
						44%	3	302
						49%	3	272
						45%	18	272
						47%	3	272
						47%	15	278
						48%	3	272
						45%	3	299
						45%	18	299
						43%	18	299
						47%	3	272
						42%	3	302
						45%	3	299

HVVCQ49	HVVCQ49 R	2133	blastx.2	(AF076191) gamma-actin [Trichosurus vulpecula]		48%	18	272
HVVCQ93	HVVCQ93 R	2135	blastx.2	90kDa heat shock protein [Homo sapiens]		89%	7	699
HVVCs28	HVVCs28R	2136	blastx.2	Rab5c protein [Canis familiaris]	emb CAA81626.1	91%	183	293
HVVCs32	HVVCs32R	2137	blastx.2	(AF015283) selenoprotein W [Homo sapiens]	gb AAB69859.1	80%	403	507
HVVCU50	HVVCU50 R	2141	blastx.2	ubiquitin-like protein [Homo sapiens]	dbj BAA04889.1	100%	95	217
						100%	65	307
						43%	583	696
						38%	319	480
						41%	3	302
						43%	3	299
						43%	3	272
						46%	18	272
						43%	3	299
						43%	3	299
						43%	3	272
						44%	15	272
						43%	3	272
						43%	3	299
						42%	3	302
						48%	3	272
						43%	18	299
						44%	3	272
						42%	6	272
						45%	15	299
						48%	18	272

HVVCV41	HVVCV41 R	2142	blastx.2	(AB010491) natriuretic peptide A type receptor [Homo sapiens]	dbj BAA31199.1	100%	2	292
						100%	309	482
						66%	283	309
						40%	399	479
HVVCW7 5	HVVCW75 R	2144	blastx.2	(AK000419) unnamed protein product [Homo sapiens]	dbj BAA91151.1	100%	3	410
HVVCX46	HVVCX46 R	2146	blastx.2	p48 [Homo sapiens]	gb AAB38382.1	54%	71	712
						50%	418	747
						100%	354	431
						51%	654	734
HVVCY29	HVVCY29 R	2147	blastx.2	immunoglobulin gamma-2 heavy chain [Homo sapiens]	emb CAB58438.1	97%	2	715
HVVCY55	HVVCY55 R	2148	blastx.2	Hrs [Homo sapiens]	dbj BAA23366.1	99%	2	511
HVVCY60	HVVCY60 R	2149	blastx.2	elongation factor-1 alpha-chain protein (EF-1-alpha) [Xenopus 1]	gb AAA49700.1	86%	1	555
						38%	498	716
						42%	557	763
HVVCY62	HVVCY62 R	2150	blastx.2	(AF113887) kappa 1 immunoglobulin light chain [Homo sapiens]	gb AAD29608.1	90%	3	620
HVVCY75	HVVCY75 R	2151	blastx.2	ribosomal protein L34 [Rattus rattus]	emb CAA32574.1	96%	394	477
HVVCY77	HVVCY77 R	2152	blastx.2	phospholipid transfer protein [Homo sapiens]	gb AAA36443.1	98%	2	598
HVVCZ18	HVVCZ18 R	2153	blastx.2	UDP-GalNAc:polypeptide N-	emb CAA63371.1	95%	423	542

HVVDH44	HVVDH44 R	2156	blastx.2	acetyl galactosaminyltransferase (GalNAc-T3) [Homo sapiens]	gb AAC39746.1	85%	20	562
HVVDM2 3	HVVDM23 R	2157	blastx.2	(AF013622) immunoglobulin heavy chain variable region [Homo 1]	emb CAA09185.1	80% 74% 62%	81 308 541	338 502 588
HVVDM3 1	HVVDM31 R	2158	blastx.2	adenylyl cyclase-associated protein [Homo sapiens]	gb AAA35507.1	98%	3	446
HVVDM4 5	HVVDM45 R	2159	blastx.2	(AF016365) hexokinase I [Homo sapiens]	gb AAC15863.1	96%	66	155
HVVDN29	HVVDN29 R	2162	blastx.2	ADP, ATP carrier protein T2 - human	pir S03894 S03894	95% 25% 56%	8 29 615	643 559 683
HVVVDN77	HVVVDN77 R	2163	blastx.2	Lon protease-like protein [Homo sapiens]	emb CAA53625.1	97%	4	594
HVVDP70	HVVDP70 R	2164	blastx.2	SM22 alpha [Homo sapiens]	dbj BAA21839.1	92% 39% 48%	61 294 287	309 593 415
HVVVDQ46	HVVVDQ46 R	2165	blastx.2	destrin [Sus scrofa]	dbj BAA14105.1	64% 56%	106 285	513 485
HVVVDQ49	HVVVDQ49 R	2166	blastx.2	calpain (EC 3.4.22.17) large chain 1 - rabbit (fragments)	pir A24815 A24815	97%	2	103

HVVDS12	HVVDS12 R	2167	blastx.2	Ig kappa chain NIG2 precursor - human	pir JE0244 JE0244	89%	91	726
HVVDS21	HVVDS21 R	2168	blastx.2	gamma subunit of CCT chaperonin [Homo sapiens]	emb CAA52808.1	95% 68%	74 690	727 746
HVVDS35	HVVDS35 R	2169	blastx.2	hevin [Homo sapiens]	emb CAA57650.1	88% 67%	80 636	736 803
HVVDT29	HVVDT29 R	2171	blastx.2	(AF065388) tetraspan NET-1 [Homo sapiens]	gb AAC17119.1	72%	121	612
HVVDT44	HVVDT44 R	2172	blastx.2	ch-TOG [Homo sapiens]	emb CAA63212.1	98%	2	460
HVVWDW0 2	HVVWDW02 R	2174	blastx.2	retinoic acid induced gene E [Homo sapiens]	emb CAA92321.1	79%	3	200
HVVWDW6 1	HVVWDW61 R	2175	blastx.2	chimeric monoklonal TSH antibody, gamma chain [synthetic construct]	emb CAA00676.1	86%	2	229
HVVDX90	HVVDX90 R	2177	blastx.2	(AF149822) mitotic checkpoint protein BUB3 [Mus musculus]	gb AAD38038.1 AF1 49822_1	84%	23	511
HWLME4 8	HWLME48 R	2181	blastx.2	calpain II [Sus serofa]	gb AAB17381.1	95%	3	140
HWMIB35	HWMIB35 R	2183	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	49	219

HWWEF9 0	HWWEF9 R	2185	blastx.2	(AL035461) dJ967N21.3 (novel protein similar to predicted 1	.emb CAB55274.1	95%	61	300
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[0048] Table 2 further characterizes certain encoded polypeptides of the invention, by providing the results of comparisons to protein and protein family databases. The first column provides a unique clone identifier, "Clone ID NO:", corresponding to a cDNA clone disclosed in Table 1. The second column provides the unique contig identifier, "Contig ID:" which allows correlation with the information in Table 1. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity disclosed in the row was determined. The fifth column provides a description of PFam/NR hits having significant matches identified by each analysis. Column six provides the accession number of the PFam/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Comparisons were made between polypeptides encoded by polynucleotides of the invention and a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFam"), as described below.

[0049] The NR database, which comprises the NBRF PIR database, the NCBI GenPept database, and the SIB SwissProt and TrEMBL databases, was made non-redundant using the computer program nrdb2 (Warren Gish, Washington University in Saint Louis). Each of the polynucleotides shown in Table 1, column 3 (e.g., SEQ ID NO:X or the 'Query' sequence) was used to search against the NR database. The computer program BLASTX was used to compare a 6-frame translation of the Query sequence to the NR database (for information about the BLASTX algorithm please see Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)). A description of the sequence that is most similar to the Query sequence (the highest scoring 'Subject') is shown in column five of Table 2 and the database accession number for that sequence is provided in column six. The highest scoring 'Subject' is reported in Table 2 if (a) the estimated probability that the match occurred by chance alone is less than $1.0e-07$, and (b) the match was not to a known repetitive element. BLASTX returns alignments of short polypeptide segments of the Query and Subject sequences which share a high degree of similarity; these segments are known as High-Scoring Segment Pairs or HSPs. Table 2 reports the degree of similarity between the Query and the Subject for each HSP as a

percent identity in Column 7. The percent identity is determined by dividing the number of exact matches between the two aligned sequences in the HSP, dividing by the number of Query amino acids in the HSP and multiplying by 100. The polynucleotides of SEQ ID NO:X which encode the polypeptide sequence that generates an HSP are delineated by columns 8 and 9 of Table 2.

[0050] The PFam database, PFam version 5.2, (Sonnhammer et al., Nucl. Acids Res., 26:320-322, (1998)) consists of a series of multiple sequence alignments; one alignment for each protein family. Each multiple sequence alignment is converted into a probability model called a Hidden Markov Model, or HMM, that represents the position-specific variation among the sequences that make up the multiple sequence alignment (see, e.g., R. Durbin et al., *Biological sequence analysis: probabilistic models of proteins and nucleic acids*, Cambridge University Press, 1998 for the theory of HMMs). The program HMMER version 1.8 (Sean Eddy, Washington University in Saint Louis) was used to compare the predicted protein sequence for each Query sequence (SEQ ID NO:Y in Table 1) to each of the HMMs derived from PFam version 5.2. A HMM derived from PFam version 5.2 was said to be a significant match to a polypeptide of the invention if the score returned by HMMER 1.8 was greater than 0.8 times the HMMER 1.8 score obtained with the most distantly related known member of that protein family. The description of the PFam family which shares a significant match with a polypeptide of the invention is listed in column 5 of Table 2, and the database accession number of the PFam hit is provided in column 6. Column 7 provides the score returned by HMMER version 1.8 for the alignment. Columns 8 and 9 delineate the polynucleotides of SEQ ID NO:X which encode the polypeptide sequence which shows a significant match to a PFam protein family.

[0051] As mentioned, columns 8 and 9 in Table 2, "NT From" and "NT To", delineate the polynucleotides of "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFam/NR database as disclosed in the fifth column of Table 2. In one embodiment, the invention provides a protein comprising, or alternatively consisting of, a polypeptide encoded by the polynucleotides of SEQ ID NO:X delineated in columns 8 and 9 of Table 2. Also provided are polynucleotides encoding such proteins, and the complementary strand thereto.

[0052] The nucleotide sequence SEQ ID NO:X and the translated SEQ ID NO:Y are sufficiently accurate and otherwise suitable for a variety of uses well known in the art and described further below. For instance, the nucleotide sequences of SEQ ID NO:X are useful for designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the cDNA contained in Clone ID NO:Z. These probes will also hybridize to nucleic acid molecules in biological samples, thereby enabling immediate applications in chromosome mapping, linkage analysis, tissue identification and/or typing, and a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y may be used to generate antibodies which bind specifically to these polypeptides, or fragments thereof, and/or to the polypeptides encoded by the cDNA clones identified in, for example, Table 1.

[0053] Nevertheless, DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than 99.9% identical to the actual DNA sequence (for example, one base insertion or deletion in an open reading frame of over 1000 bases).

[0054] Accordingly, for those applications requiring precision in the nucleotide sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, and a predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing cDNA Clone ID NO:Z (deposited with the ATCC on June 5, 2000 and were given ATCC Deposit Nos. PTA-1982 and PTA-1985; and/or as set forth, for example, in Table 1, 6 and 7). The nucleotide sequence of each deposited clone can readily be determined by sequencing the deposited clone in accordance with known methods. Further, techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X. Techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X.

[0055] The predicted amino acid sequence can then be verified from such deposits. Moreover, the amino acid sequence of the protein encoded by a particular clone can also be directly determined by peptide sequencing or by expressing the protein in a suitable host cell containing the deposited human cDNA, collecting the protein, and determining its sequence.

RACE Protocol For Recovery of Full-Length Genes

[0056] Partial cDNA clones can be made full-length by utilizing the rapid amplification of cDNA ends (RACE) procedure described in Frohman, M.A., et al., Proc. Nat'l. Acad. Sci. USA, 85:8998-9002 (1988). A cDNA clone missing either the 5' or 3' end can be reconstructed to include the absent base pairs extending to the translational start or stop codon, respectively. In some cases, cDNAs are missing the start codon of translation. The following briefly describes a modification of this original 5' RACE procedure. Poly A⁺ or total RNA is reverse transcribed with Superscript II (Gibco/BRL) and an antisense or complementary primer specific to the cDNA sequence. The primer is removed from the reaction with a Microcon Concentrator (Amicon). The first-strand cDNA is then tailed with dATP and terminal deoxynucleotide transferase (Gibco/BRL). Thus, an anchor sequence is produced which is needed for PCR amplification. The second strand is synthesized from the dA-tail in PCR buffer, Taq DNA polymerase (Perkin-Elmer Cetus), an oligo-dT primer containing three adjacent restriction sites (XhoI, SalI and ClaI) at the 5' end and a primer containing just these restriction sites. This double-stranded cDNA is PCR amplified for 40 cycles with the same primers as well as a nested cDNA-specific antisense primer. The PCR products are size-separated on an ethidium bromide-agarose gel and the region of gel containing cDNA products the predicted size of missing protein-coding DNA is removed. cDNA is purified from the agarose with the Magic PCR Prep kit (Promega), restriction digested with XhoI or SalI, and ligated to a plasmid such as pBluescript SKII (Stratagene) at XhoI and EcoRV sites. This DNA is transformed into bacteria and the plasmid clones sequenced to identify the correct protein-coding inserts. Correct 5' ends are confirmed by comparing this sequence with the putatively identified homologue and overlap with the partial cDNA clone. Similar methods known in the art and/or commercial kits are used to amplify and recover 3' ends.

[0057] Several quality-controlled kits are commercially available for purchase. Similar reagents and methods to those above are supplied in kit form from Gibco/BRL for both 5' and 3' RACE for recovery of full length genes. A second kit is available from Clontech which is a modification of a related technique, SLIC (single-stranded ligation to single-stranded cDNA), developed by Dumas et al., *Nucleic Acids Res.*, 19:5227-32 (1991). The major differences in procedure are that the RNA is alkaline hydrolyzed after reverse transcription and RNA ligase is used to join a restriction site-containing anchor primer to the first-strand cDNA. This obviates the necessity for the dA-tailing reaction which results in a polyT stretch that is difficult to sequence past.

[0058] An alternative to generating 5' or 3' cDNA from RNA is to use cDNA library double-stranded DNA. An asymmetric PCR-amplified antisense cDNA strand is synthesized with an antisense cDNA-specific primer and a plasmid-anchored primer. These primers are removed and a symmetric PCR reaction is performed with a nested cDNA-specific antisense primer and the plasmid-anchored primer.

RNA Ligase Protocol For Generating The 5' or 3' End Sequences To Obtain Full Length Genes

[0059] Once a gene of interest is identified, several methods are available for the identification of the 5' or 3' portions of the gene which may not be present in the original cDNA plasmid. These methods include, but are not limited to, filter probing, clone enrichment using specific probes and protocols similar and identical to 5' and 3' RACE. While the full length gene may be present in the library and can be identified by probing, a useful method for generating the 5' or 3' end is to use the existing sequence information from the original cDNA to generate the missing information. A method similar to 5' RACE is available for generating the missing 5' end of a desired full-length gene. (This method was published by Fromont-Racine et al., *Nucleic Acids Res.*, 21(7):1683-1684 (1993)). Briefly, a specific RNA oligonucleotide is ligated to the 5' ends of a population of RNA presumably containing full-length gene RNA transcript. A primer set containing a primer specific to the ligated RNA oligonucleotide and a primer specific to a known sequence of the gene of interest, is used to PCR amplify the 5' portion of the desired full length gene which may then be sequenced and used to generate the full length gene. This

method starts with total RNA isolated from the desired source, poly A RNA may be used but is not a prerequisite for this procedure. The RNA preparation may then be treated with phosphatase if necessary to eliminate 5' phosphate groups on degraded or damaged RNA which may interfere with the later RNA ligase step. The phosphatase if used is then inactivated and the RNA is treated with tobacco acid pyrophosphatase in order to remove the cap structure present at the 5' ends of messenger RNAs. This reaction leaves a 5' phosphate group at the 5' end of the cap cleaved RNA which can then be ligated to an RNA oligonucleotide using T4 RNA ligase. This modified RNA preparation can then be used as a template for first strand cDNA synthesis using a gene specific oligonucleotide. The first strand synthesis reaction can then be used as a template for PCR amplification of the desired 5' end using a primer specific to the ligated RNA oligonucleotide and a primer specific to the known sequence of the ovarian antigen of interest. The resultant product is then sequenced and analyzed to confirm that the 5' end sequence belongs to the relevant ovarian antigen.

[0060] The present invention also relates to vectors or plasmids, which include such DNA sequences, as well as the use of the DNA sequences. The material deposited with the ATCC (deposited with the ATCC on June 5, 2000 and were given ATCC Deposit Nos. PTA-1982 and PTA-1985; and/or as set forth, for example, in Table 1, 6 and 7) is a mixture of cDNA clones derived from a variety of human tissue and cloned in either a plasmid vector or a phage vector, as shown, for example, in Table 7. These deposits are referred to as "the deposits" herein. The tissues from which some of the clones were derived are listed in Table 7, and the vector in which the corresponding cDNA is contained is also indicated in Table 7. The deposited material includes cDNA clones corresponding to SEQ ID NO:X described, for example, in Table 1 (Clone ID NO:Z). A clone which is isolatable from the ATCC Deposits by use of a sequence listed as SEQ ID NO:X, may include the entire coding region of a human gene or in other cases such clone may include a substantial portion of the coding region of a human gene. Furthermore, although the sequence listing may in some instances list only a portion of the DNA sequence in a clone included in the ATCC Deposits, it is well within the ability of one skilled in the art to sequence the DNA included in a clone contained in the ATCC Deposits by use of a sequence (or portion thereof) described in, for example Tables 1A or

2 by procedures hereinafter further described, and others apparent to those skilled in the art.

[0061] Also provided in Table 7 is the name of the vector which contains the cDNA clone. Each vector is routinely used in the art. The following additional information is provided for convenience.

[0062] Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128,256 and 5,286,636), Zap Express (U.S. Patent Nos. 5,128,256 and 5,286,636), pBluescript (pBS) (Short, J. M. et al., *Nucleic Acids Res.* 16:7583-7600 (1988); Altting-Mees, M. A. and Short, J. M., *Nucleic Acids Res.* 17:9494 (1989)) and pBK (Altting-Mees, M. A. et al., *Strategies* 5:58-61 (1992)) are commercially available from Stratagene Cloning Systems, Inc., 11011 N. Torrey Pines Road, La Jolla, CA, 92037. pBS contains an ampicillin resistance gene and pBK contains a neomycin resistance gene. Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be transformed into *E. coli* strain XL-1 Blue, also available from Stratagene.

[0063] Vectors pSport1, pCMVSport 1.0, pCMVSport 2.0 and pCMVSport 3.0, were obtained from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, also available from Life Technologies. See, for instance, Gruber, C. E., et al., *Focus* 15:59- (1993). Vector lafmid BA (Bento Soares, Columbia University, New York, NY) contains an ampicillin resistance gene and can be transformed into *E. coli* strain XL-1 Blue. Vector pCR[®]2.1, which is available from Invitrogen, 1600 Faraday Avenue, Carlsbad, CA 92008, contains an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, available from Life Technologies. See, for instance, Clark, J. M., *Nuc. Acids Res.* 16:9677-9686 (1988) and Mead, D. et al., *Bio/Technology* 9: (1991).

[0064] The present invention also relates to the genes corresponding to SEQ ID NO:X, SEQ ID NO:Y, and/or the deposited clone (Clone ID NO:Z). The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include preparing probes or primers from the disclosed

sequence and identifying or amplifying the corresponding gene from appropriate sources of genomic material.

[0065] Also provided in the present invention are allelic variants, orthologs, and/or species homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of ovarian associated genes corresponding to SEQ ID NO:X or the complement thereof, polypeptides encoded by SEQ ID NO:X or the complement thereof, and/or the cDNA contained in Clone ID NO:Z, using information from the sequences disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source for allelic variants and/or the desired homologue.

[0066] The polypeptides of the invention can be prepared in any suitable manner. Such polypeptides include isolated naturally occurring polypeptides, recombinantly produced polypeptides, synthetically produced polypeptides, or polypeptides produced by a combination of these methods. Means for preparing such polypeptides are well understood in the art.

[0067] The polypeptides may be in the form of the secreted protein, including the mature form, or may be a part of a larger protein, such as a fusion protein (see below). It is often advantageous to include an additional amino acid sequence which contains secretory or leader sequences, pro-sequences, sequences which aid in purification, such as multiple histidine residues, or an additional sequence for stability during recombinant production.

[0068] The polypeptides of the present invention are preferably provided in an isolated form, and preferably are substantially purified. A recombinantly produced version of a polypeptide, including the secreted polypeptide, can be substantially purified using techniques described herein or otherwise known in the art, such as, for example, by the one-step method described in Smith and Johnson, Gene 67:31-40 (1988). Polypeptides of the invention also can be purified from natural, synthetic or recombinant sources using techniques described herein or otherwise known in the art, such as, for

example, antibodies of the invention raised against the ovarian polypeptides of the present invention in methods which are well known in the art.

[0069] The present invention provides a polynucleotide comprising, or alternatively consisting of, the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA sequence contained in Clone ID NO:Z. The present invention also provides a polypeptide comprising, or alternatively, consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X or a complement thereof, and/or a polypeptide encoded by the cDNA contained in Clone ID NO:Z. Polynucleotides encoding a polypeptide comprising, or alternatively consisting of the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, and/or a polypeptide encoded by the cDNA contained in Clone ID NO:Z are also encompassed by the invention. The present invention further encompasses a polynucleotide comprising, or alternatively consisting of, the complement of the nucleic acid sequence of SEQ ID NO:X, a nucleic acid sequence encoding a polypeptide encoded by the complement of the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA contained in Clone ID NO:Z.

[0070] Many polynucleotide sequences, such as EST sequences, are publicly available and accessible through sequence databases and may have been publicly available prior to conception of the present invention. Preferably, such related polynucleotides are specifically excluded from the scope of the present invention. Accordingly, for each contig sequence (SEQ ID NO:X) listed in the third column of Table 1, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, b is an integer of 15 to the final nucleotide of SEQ ID NO:X, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. More specifically, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a and b are integers as defined in columns 4 and 5, respectively, of Table 3. In specific embodiments, the polynucleotides of the invention do not consist of at least one, two, three, four, five, ten, or more of the specific polynucleotide sequences referenced by the Genbank Accession No. as disclosed in column 6 of Table 3. In further embodiments, preferably excluded from the invention are the specific polynucleotide

sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table. In no way is this listing meant to encompass all of the sequences which may be excluded by the general formula, it is just a representative example. All references available through these accessions are hereby incorporated by reference in their entirety.

TABLE 3

Clone ID No: Z	SEQ ID NO: X	Config ID:	EST Disclaimer Range of a Range of b	Accession #'s
HOVCD34	11	396327	1 - 314 15 - 328	BF032064, T40388, BG223493, AI917132, BF526832, AI554435, H86931, AC007262, AC026722, Z98742, AP000115, AL121969, AL159996, AP001717, AL353771, AL354674, AL353802, AL031846, AP000308, AL139343, Z97629, AC010135, AL049832, AP000048, AL020995, AC011292, AC007955, AL356103, AC004938, AC002492, AC068811, AC023511, AL008721, AC011749, AL024473, AC006354, AC002351, Z93015, AC007172, AC005230, AL139342, AF165926, AL121902, AC007025, AC005181, AL158841, AC011742, AL163201, AC009024, AC008269, AL139277, AC007964, AC007938, AF205588, AL139185, AC006478, AC007784, AL034395, AL136000, AC007344, AC010731, AL122013, AC002288, AL359751, AL121721, AC066590, AL139232, AC024164, AL031662, AC007358, AC009481, AL050335, AL033533, AC010789, AC009498, AC007850, AL020998, AC018684, AL034451, AL135783, AC008066, AC005030, AL049562, AL138706, Z95125, AC007461, AC011475, AL117337, AL117694, AL121915, AL049776, AL078596, AL035089, AL096764, AL049563, AC002553, AL035067, AC007458, AC018642, AC005550, Z99496, Z98036, Z99291, AC003119, AC007446, AC020751, AC068314, AC003035, X87344, AC066598, AC073175, AL139351, AC012156, AC006314, AC010582, AC018832, AC006142, AL139353, and AL163247.
HEBGD58	12	498281	1 - 340 15 - 354	BG253988, BF508504, AA187211, H44280, BG251021, AA431830, AW962811, AA355921, H06638, BG259131, AV729233, BG119160, BG027014, T48526, AW298232, and AL138828.
HETCD42	13	533532	1 - 2333 15 - 2347	AL079360, AU137870, AU139146, BG260515, AV714769, AU137391, BF984453, AV713475, AV757390, AU138193, BF981793, AV713896, BE886752, BE889586, AW863749, BE882133, BF984505, BF983192, BG033275, BE537808, AU138496, BF978549, BF791293, AV758458, BF978970, BE897839, BE891773, BG028552, AV756779, BF348380, BE544852, BG180994, AU138423, BE783926, BE790149, AV647651, BG180514, BE886542, BF669771, AW950287, BG030964, AU133929, BF540824, BF672669, AI308837, BE882889, BF244654, BF666694, AV647698, BG169993, BF790368, AV723145, AV732863, AA122236, AV647695, AV715522, AV685920, BF028308, AV647569, BF105115, BE892120, BF695056, BF669431, BF436129, BE543091, AW363937, BF667030, AI740603, BE568179, AV715544, AI698125, AI678683, BE748490, AW299845, BG009598, AI766040, BF036918, AA911996, BF790701, AI740699, BF129905, BF695828, BE748787, BF694681, BE049332, BE501459, BF791119, BF242503, BF240540, AI566017, BE739216, AI862778, BF103607, BF383055, BF089920, BF383113, BF574696, AW439230, BF028165, AI992130, BF029869, BF214255, AA083269, BF692328,

HTXKC18	14	535854	1 - 864	15 - 878	<p>BF028909, BF028950, N31326, BF670821, BF211706, BF701480, BF670811, BE866031, AI917193, AI570519, BE568353, AI095016, BF130290, BF245935, AA731991, BE789179, BE018220, BE789659, AV706901, BE873916, AI784504, AU157511, AU157154, AA807683, BF214737, BE866674, AA521441, BF697291, AI097040, AA159802, AU155086, BF576547, BF001380, AA577000, BF576765, AI421580, BE042461, AA315644, BF241476, BG165631, AI954071, AI949499, BF001429, BG178240, AI088027, BF693411, BE866506, BF243338, BF238642, BF213391, BF693271, AI590159, BE564554, AI870962, AA291279, BF696346, AI683299, AA452797, BF691651, BF697614, BF574483, AI335173, BF574392, AI922454, BE878946, AA613953, BE301705, W46431, AI983758, BE138832, BF381737, BE568565, BF126639, N21374, BF793733, AV757543, BE175751, BF211165, BF693918, BF383115, BF575927, AA083228, AA626504, BE568752, BF993159, BF248184, AI274752, AV647219, AA514125, AI580851, AI302371, AV758280, W52465, AW339075, AW627843, AW589504, AA729798, AA165015, AI301712, BF923406, BG025081, AI095888, BF132421, BE865839, H12391, AW193393, BG113656, AI750428, N35068, AW628469, BF381687, AA018858, AI537545, AI539228, AV647526, BE739676, BF244248, N43807, AI355889, BF219513, AW305167, AA248634, BF670216, BF208900, D58212, BF576833, BE567828, AV692522, AW316752, AV763220, AA249298, BF221484, BE247748, BF336472, BE567395, AV704009, BF336476, AC002543, U03851, U03269, U16741, M80589, and M25534.</p> <p>AA547979, AI085242, BG029528, BF725761, BE162539, AI801505, AI358712, BF804385, AI369580, AL037714, AL079734, BE062478, AA483256, BF811714, BF681619, BF804359, BG180976, BE178231, AV760941, BE252421, AW021116, AI439372, AA594157, AV758870, AW819125, AL043351, BE062476, AA643770, AI583252, AI923052, BE178064, AI440117, AV760391, AL038606, AV741663, AA528503, AW855643, BE301584, AA528496, AW069227, AW969941, AW833865, AI380617, AA579419, AV760014, BF868994, AI612142, BF842771, AV760389, AI251576, AW023111, AL037683, AW827182, AL040038, AW237905, BE677029, AI491765, AL042373, AI499298, AI421755, AW020150, AI174876, AI821467, AA469327, AI612070, BF244530, AW855528, BE063437, AW779609, AI583466, AA812058, BF821009, AV763276, AV726091, BF821897, BG152386, AI611533, AI565084, AA832016, AA828047, AA857812, AI275982, AI610941, BE150580, AI299882, AV760915, AI301373, AA838091, AI457389, T74524, AL121655, AC005520, AC006312, AL356379, AC008569, AL024498, AC007546, AC020904, AC018758, AL158040, AC005911, AC024082, AL109804, AC007637, AC005940, AC004089, AP001435, AC011449, AL096840, AC005102, AC004867, AC021016, AL121586, AL034548, AC004967, AC005736, AC005480, AC008403, AC003684, AC009516, AC020916, U91321, AC005755, AL136137, AP000704, AL050318, AC005531, AF168787, AC002350, AC005387, AC005952, AC010271, AC007731, AC005412, AC020552, AC002312, AC008753, AL034379, AL121653, AC005197, AL157838, AC008551, AL138787, AC005971, AC004217, AC007597, AF045555, AC018720, AL355385, AC006597,</p>
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HLDRK20	15	553765	1 - 1300	15 - 1314	AL531625, BE249834, BE249869, AU133584, AU133954, BE293361, AV692312, AW957051, BE293519, AU135103, AA399208, AW176043, AV690099, AI904273, T60502, BF374345, AV655442, AW804571, AW804603, T70509, AV688378, H47199, H93928, AV694565, AV694238, T68223, T68956, T68126, T68045, AA337893, T69698, AW804991, AW804996, T68924, AW372297, T72305, AV696946, AV696947, AI301941, AA344625, T71155, T72771, T56196, T73042, BF992875, AI133687, BE392020, AV693194, BF848482, AW104835, BF369544, T74806, AI363265, T68644, T60607, AA779168, T68483, T67851, AV647855, T73703, AI266591, AR034619, S67310, L15702, X72875, AX014918, AF019413, X00284, K01566, M15082, and M59240.
H2MBD33	16	558474	1 - 425	15 - 439	AW957931, AW957932, AA308306, AI633677, BE538201, BE044997, AW856247, BF061419, BE787771, AW874580, AA503529, AW117709, AI613324, AI561159, AI732205, AA133693, AA747898, AU160258, Z19706, AA405171, AU156212, BG231867, AI498698, AA579013, U88573, A75315, AC016816, X87344, AC000117, AC004506, AC004522, AC004899,

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HSYBX61	17	558708	1 - 1094	15 - 1108	AI950214, AI074445, BG114649, BF666951, AV705261, AI050761, BF215604, BF700368, AW665220, BF247160, BE958106, BF668544, AW901579, AA863199, BG105211, AW901581, AA933061, BF691307, BF081566, AU153641, W48793, BE701906, AW901558, BF363888, W49619, AA757163, AI127140, BF363884, BE812771, AW901562, AA406401, AU127328, AU120201, AW901572, BE701904, AV694302, AW901560, AW951188, BE938964, W24640, BE701884, AI207705, AW360819, AL041311, AW360785, T29223, AI765920, BF382797, AA747483, AW136630, N83358, R38385, AW900970, BF970590, BF885816, AW899304, N87392, AA693316, N89144, AI675151, AW900934, BF529885, BE767210, AI754509, BE464612, BG167754, M34064, X57548, X53615, S42303, AB017695, AB008811, M31131, AF097593, X07277, S45013, X54315, S45011, AF177682, Z27439, Z27440, and Z27441.
HELHC03	18 -	562745	1 - 1161	15 - 1175	BE262771, AI024014, H90904, AV695478, BE138594, AL036909, AI560085, AI537397, AI630283, AA744018, AV756491, AL038842, T74524, AW023302, AI888468, AI076236, AA181917, AA468022, AI678867, BE147833, AW965008, AC005048, AC005726, AC006050, AL139182, AL121893, AC005829, AL078591, U91323, Z84469, AL162615, AF196969, AC006337, AC011470, AL031777, AC005102, AL135901, Z93241, AC007934, AC005670, AC007263, AL353804, AC004895, AC004963, AL121891, AL050349, AC004906, AC000025, AC004983, AL117382, AC006011, AL034422, AP000563, AL354896, AL139099, AC008760, AB003151, AL157789, AC003070, AL049872, AC005412, AL162430, AC005859, AP000558, AP000065, AC011500, AL050332, AC011479, AC018738, AC005527, AL158141, AC009516, AP001711, AC005529, AL356354, AC007686, AC000379, AL109797, AL135744, AC002115, AC002546, AC005080, AC011455, AL008635, AL133417, Z95114, AC007785, AC004634, AP000501, AC007216, AC018751, AF053356, AC002312, Z97985, AC002550, AC005236, AL049795, AC010553, AL049780, AC005052, AL138807, AC005482, AF111168, AC005081, AC011442, AL445248, AC007055, AC036103, AC002425, AP000313, AL109743, AF088219, AC002091, AC010201, AC006552, AL133228, AC005840, AL137060, AC009399, AL050318, AC002301, AC007130, AL118520, AC006483, AP000133, AC010422, AL031575, AC011475, AC011523, AC007201, AC004916, AF109907, AF168787, AC006071, AL365212, AC004694, AC027319, AL133548, AC011495, Z94801, Z98884, AC002404, AC002395, AC008085, AP000194, AC004858, AL136298, AC018719, AL138893, AC011527, AC002369, AC011592, AL356750, AL389886, AC005409, AC008770, Z94056, AP000350, AL133153, AL132653, AC015651, AL031846, AL162424, AC083874, AC005755, AC004031, AC016831, AP001714, AC005015, AC007465, AP000555, AC008537, U91326, AC020947, AC020908,

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HOFMP70	19	585385	1 - 333	15 - 347	AU129119, AU132116, AU122873, BF985587, BE880467, AU134725, BF763276, AU127421, BF986272, BF752117, BF679945, AU131326, AU139214, AA314523, AA852641, AU129752, AA307371, BF696550, AU130590, AU118964, BG178180, AU131491, BF669193, AU136184, BF985661, BE410823, T68678, BF749656, AW239136, AA242999, BE620262, BF698331, AA375736, BE782468, BF965316, BF327652, BE876259, BE875957, BE796542, BE620043, BE389731, BE790649, T07406, BF570489, BE785080, BE745306, BF681401, AW579861, BF985601, AU128901, BE156508, AL036766, AU128389, AA375047, BF107335, BF985580, BG171811, T71831, BF985602, BF903411, T71811, AA362982, AV750113, AA092055, BE732006, BE731395, AU127766, BE156632, BE733317, BE273157, BF733809, AL044046, AW455795, BF107170, BF752590, AW363271, U01153, X15187, AK025459, X90848, Y09136, X76301, S74939, M26596, M33716, and AR032000.
HSKNZ25	20	585675	1 - 674	15 - 688	AI423388, AA705880, BF525904, AA349525, AA488891, AA836122, BF348027, AA465431, AI310146, AI302088, AA584447, AW968376, N46920, AI986100, BF753058, BE160619, AI077517, AL040766, AA890243, BE244498, AA325569, BE160856, AA771925, AA489237, AA126066, AV656598, AW372110, AW137313, AL039325, BF959941, AA046254, AW136539, BE072182, AA465360, AA917759, AW962078, AW816387, BE935535, AA573136, AW517075, BF903430, R45086, AW797195, AI368519, AA078308, AI022603, AI354688, BF761820, AI565643, AA810621, W87764, AW852367, BE149694, AV653343, BG010915, BF989770, BF762909, BF834278, BF897554, BF929290, AW861486, AI052645, AA280250, BF857730, BF857711, AW857610, AW857593, BE729724, AL118895, AW857604, AW938518, BE142184, BG105313, AA077547, AA577804, AA496279, BE089188, BE142866, BE142936, BE161095, AW888812, AW857605, AW945790, BF750582, BF813834, AI651771, BE089952, AW898784, AW845700, BE393138, AW902136, AW845696, BF953515, AL024458, AC005562, AC007204, AL031228, AL035246, AC012309, AC010632, AC003975, AC011460, AC007275, AC008821, AL445249, D28126, AC009489, AL122001, AC003682, AL121905, AC008537, AL136317, AL139277, AL022318, AC078899, AC002301, AL360088, AP000346, AC022137, AL033526, AC068948, AL133162, AL121985, AC006504, AC019173, AL132656, AC000397, Z95704, AC010328, AC008176, AC073898, AL161802, AL121932, AC006462, AL365505, AL031775, AP000431, AP001675, AC022148, AC008969, AC074331, AL035458, AL078614, AP001464, AC004976, AL109943, AC022596, AP000498, AL163202, AB026898, AL137070, AC008554, AL136419, AC010889, AC002049,

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HDPFK39	21	588869	1 - 736	15 - 750	BF892783, BF894772, BE243071, BF892143, BF892796, BF892140, BF899235, M18044, J03925, J04145, AF268593, S52159, S52157, S52153, S52154, S52152, S52161, I19138, M76724, S52155, M82856, and U59801.
HL1AB07	22	638220	1 - 870	15 - 884	AW410018, AI956068, AI140111, BE902158, BE410544, BE559955, AW009487, AW006443, BF237868, AV714206, AI301924, AI494409, AV717288, BG256432, BF976795, BG166509, AW080966, BE619019, W52136, AV709106, BE619682, AI189286, BE566002, AW084868, AI687212, AV711092, BF697110, BE567660, BE409695, AV710866, AI801202, AI032877, AW410017, BE568300, AI262521, BE963864, AI523891, AI184261, AV691952, BE091071, AV746007, AI566878, AA151257, AI144492, AA826477, AW083498, BE787965, BF851971, BE535774, AW410030, AI399980, N36966, BF435067, AI809283, AI018420, BF967855, AI819520, W30822, AI128356, AI025970, BE672642, BF081971, BF081981, AI880707, AA127920, AW779049, BF676071, AI206487, AW471111, AW028734, AV762883, AI150971, BF881900, AA889268, AA887476, BF858077, N36122, AI190417, AI127953, BF696643, AA843205, N38925, AI566572, AI066676, BE931182, AI990970, BE879114, BF028182, W37751, AA730086, H48432, C18042, AA142846, AI139565, AI688339, AA679046, AA588794, AA127971, AV716260, AA001534, AA719696, AI074105, AA642642, N42965, AV762116, AI375763, N47999, W67531, AV723563, AI627627, AA494298, AA973740,

HHGAS83	23	654868	1 - 833	15 - 847	<p>AI016758, BF081942, AA151258, BE905596, AI225090, BE875848, W02508, H46679, C04154, T60074, BF678014, BG106733, H41469, BE270088, N69681, AA844464, AA430561, AA583307, AA461150, AV762407, AA127062, D19615, AI752939, R81805, AA025474, AI066496, W37750, H41039, AV745238, AI924481, AI924470, BE004170, AI344530, AW880670, H72482, AA018348, AA514449, BF475775, AA125939, H29277, AI004753, AI355113, AA844121, BF892448, BE825656, T35178, H22508, R81909, W31172, AA976620, F35745, H65927, H22469, AA917898, H18879, H20360, AA354526, AA460845, AA610792, AA844581, AI984747, AA532788, R89209, AA694042, H18878, R50840, N30666, AA834054, W67532, R89101, H58424, AA650593, AA018347, R82743, AW572104, AA055147, AA301393, BE463668, AI024508, AV683793, AI630440, H42928, AA343997, AV690683, N32244, AV689469, AA890629, AA433978, H46678, BF222315, BE866553, AW888410, AV685213, W25676, BE091036, AA084018, AA337082, AW088862, AA112174, R34238, T85674, H40286, BE568860, T34863, N94289, AV705344, H20171, W02840, AW380085, AW380101, AW948839, AW380091, AA353222, AI184040, T55401, H58425, AW380097, N51206, BF056703, AA650550, T55474, AV738416, H72883, AA054937, AA704634, R35565, AI198351, BF842567, AW885411, AA464336, BF967553, N46497, R32185, F24158, R32236, BE925396, AI612942, W92351, AX015062, AF161504, AF151884, AC007237, and AX014860.</p> <p>AL533363, AW156912, AI816293, BG178409, AL533268, BE780411, AW157766, AI798138, AI963352, AI928783, AW262125, BE791202, AV759165, AI674833, AI039883, AW162562, BG178768, BE877936, AV722302, BF571229, BF339857, AI830091, BF126571, BF674685, AI986467, AW148939, BF345205, AV711322, BG236045, AW272546, BE872856, AV723940, BG163828, BF967950, BE745145, AA572799, BE899054, BE615020, AW161689, BF529506, AI206529, W93860, AL533542, BE799051, BG232073, AI200704, BF973309, BF679748, BF974878, AI199823, AI817392, BF184997, BF967861, AV710824, BF338381, N25541, AA669821, AV702224, BF528571, BF530905, AA593762, AW157587, AW157474, AA128267, BF974287, AV711487, AW029137, AA577607, AV707789, AA864492, AV733623, AI077676, AA576598, AA575898, AA708990, AA843178, AI338574, BF239951, BF820971, AI832599, AI139644, BE273067, AI745646, AI340072, BF210950, BE165278, BF206608, BE614815, BE165293, BE165267, BF700461, BF821744, AI276918, BE165274, BE165284, BE874868, AI630859, BE165285, BE165295, BE165281, BE165287, BE165289, BE165094, BE165276, BE165272, BE165273, BE165275, BE165110, BE165296, BE165286, BE165277, BE165157, BE165165, BE165084, BE165294, BE165290, BE165087, BE165271, BE165077, BE165089, AV734637, BF351286, BE165095, BF772629, BE165270, BF339501, BE165078, BE844143, BE165088, BE165099, AA814150, BE122846, BF967319, BE810478, BF342269, AW386221, BE165090, BE279632, BE165085, BF351288, BE165116, BE165091, BE165098, AI139451, AI673724, N34138, BE165092, AA970318, AA506290, W67498,</p>
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HTSGU37	24	704405	1 - 502	15 - 516	<p>AW163711, AI815378, AL524692, AA813566, AF019406, AL050341, and M95610.</p>
H2LAN34	25	705692	1 - 530	15 - 544	<p>AA314140, AI623759, AW954842, AV747509, AA768701, AW005593, AI420537, H65282, AW469272, AW469280, AW959628, AW966534, AW966053, D58283, AW975618, D80043, AW966029, D57483, AW964756, AV699550, D80253, AW973334, AW958993, AV718489, AW978661, D80164, AW966531, D80366, AW975621, AW959799, AV699447, AV718440, AW960465, AV720028, AW978634, D80022, C14331, AW958992, AV718770, AW965163, AW949641, AW973541, D59467, AW966022, AW965177, AW973485, AV718844, D51423, D59859, D81030, AW966041, AV719783, AW966013, D80391, AW966065, AV720464, D59787, D80166, AV722801, D80195, AW959570, D59275, AW978648, D59619, D80210, D51799, AW964488, AW960553, D80240, C15076, AV719822, AV720791, AW966054, AV720203, AV718692, AV720731, AW966050, AV719188, AW973307, D80227, D80188, AW966062, AV719324, AV718938, D80024, D59502, AW959597, AV718633, D50995, AW975605, AW962082, AV718800, AW965197, AW965184, AV720211, AV718931, AV719557, D80196, AW973474, AV723927, AV724520, AW959136, AW959062, AW964477, AW956434, AW949656, AW949654, AV699927, D59889, AW949642, AW959202, AW960532, D80212, C14389, AW965158, AW964737, D80219, AW949632, D59927, AW973482, AW965185, D80269, AV718530, D80038, D50979, D80193, AW966075, AW949629, AW949633, AW962245, AW949645, AV719468, AV718707, AW949657, AW965175, D59610, AW960473, AW966059, AW956397, AW949653, AW949646, AW949658, AW949631, AW965196, AW949643, AW949618, AW973488, AW949655, D80378, C14429, AA305409, AV720878, AW959469, AW975613, AV701004, AW973330, AV720812, AV721386, AW966043, AW966023, AW753053, AW959582, AV723097, AW973447, AW960504, D80241, AW960564, AV700889, D80045, AW975623, AW960570,</p>

					<p>AW966030, AW960454, C14014, T03269, AW178893, AW752082, AV700229, D51060, C75259, AV720654, AW973465, AW965176, AV742001, AV742667, AV701125, AV701335, AV701166, AV742430, AC0012627, AC008554, AC011477, AC007204, AC024563, AC008626, A62300, AX033851, A62298, A84916, AX027925, AJ132110, AR070327, AR018138, AX047063, AX047064, X67155, AX021518, A25909, Y17188, D26022, AX035434, AX020191, A67220, D89785, A78862, D34614, AJ302649, AX020190, AF058696, AX047062, D88547, AR008278, X82626, AR077702, AB028859, AX028130, AR025207, AR087649, AJ294956, Y12724, AF260572, AR074545, AB012117, X68127, AX015396, A82595, A94995, AJ287395, AR088705, AB002449, A85396, AR074141, AR066482, AR060385, A44171, AX042372, A85477, AR008443, I19525, A86792, X93549, I50126, I50132, I50128, I50133, AR066488, AR016514, AR060138, A45456, A26615, AR052274, AR054175, AR074139, AR066490, Y09669, A43192, A43190, AR038669, AR066487, AR074136, I18367, A30438, D88507, I14842, D50010, Y17187, AF135125, AR008277, AR008281, A63261, AX035429, AX035428, AX035426, X64588, AR008408, AR091537, AR062872, A70867, AR093385, AR016691, AR016690, U46128, D13509, AB033111, A64136, A68321, AR060133, AR087528, I79511, AR071754, AR064240, AB037923, U87247, AB023656, U79457, AF123263, AR032065, Z82022, A63887, X93535, and AR008382.</p>
HPMBZ40	26	711500	1 - 882	15 - 896	<p>AW104075, AA322168, AA318382, AW582134, AA559937, AA635043, AA309573, AA664669, AI890563, AA747333, AA083698, AI002831, F31565, AA327808, AA640478, AA307971, AA101115, BF438598, AV656583, T41261, AA962042, BE147478, AA614771, AA548695, AA179423, AA657363, AV709285, AI708675, BG121326, AI350430, AW393836, AW393837, AA083697, AA171770, AW393902, T59870, F21378, AA679905, AA515952, F20900, AA828709, AA179773, AA230071, AA327627, T58575, AA669666, AA340945, T73373, AA805827, AA328641, AA729868, F31199, AA729864, AW378613, AA182721, AA130896, AA364450, AA229102, AA299112, W32976, F29405, AA888657, AA328937, AA079176, AA383431, F33309, AA363495, AA328075, AW361074, AW059576, D11891, D51386, AA502814, AA507714, AA299168, AW582136, D11796, F17656, AW378614, BE747323, BF437529, AA746958, D55360, AA484708, AA767968, AA627228, AA507186, AI708996, AA082512, D52903, AI302193, D53594, AA329939, AA341403, AA827269, AA172100, T53280, AA748072, BF906802, AI302449, T53153, AA304439, AA341417, AA962113, AA522638, AA604015, T63562, AA484205, AA593695, N68907, T94322, AA501477, AA181035, AA181548, AA847052, AA583572, D12365, AA180490, AA507806, AI628828, AA630793, AU122870, AW276534, AW304926, AA622673, AA225033, AW270722, AW104696, AA578036, AA053440, AA773121, AA128815, AI679291, AW085649, AA621862, AW058229, AA736894, AA480608, AA665010, AI884565, AA321126, N31278, AA187890, AA244150, AA747111, AA191223, AW270043, AA593407, T50429, W52460, AA132470, D53323, AA328902, AA159715, D54432, W68495, AA167322,</p>

HL.YEP52	27	732342	1 - 998	15 - 1012	<p>AI095409, AA084375, AA658827, AI358166, AI708234, AA187504, AA482748, AW780036, AA583520, AA157332, AA314043, BF197836, D50983, AA970585, AA143227, AA911880, AA927974, AA976810, AA977150, AA102191, AI798525, AA078950, AA102849, AA180190, AA224984, AI357051, AW873238, AA569578, BG223220, AI439429, AA029991, AI719781, AW089073, D53734, AI366916, AA310543, AA486614, W68360, AA665092, AW327769, AA100956, AA165275, AA804683, BF244443, AI301557, AA078973, AA315728, AW628061, AA657647, AA159647, D54122, AI857391, T57651, AA334959, AI676012, AW262217, AI523425, AI819822, D11511, AI708369, AA010340, AI300845, AA040455, AI338636, AI660588, AW069480, AA528259, AI707739, N22482, AI027315, AW006070, AA316160, AA187988, N75284, BE613193, AW327699, AA244151, BE645512, AA583926, BG026258, AA627191, AA954121, AA081362, AA182780, AW245982, BG230817, AI074945, AI080574, BGI42239, AI719383, AA583480, T59580, N95296, AB007163, AR083348, A62479, MI0939, X63237, S79522, AL136454, AC005291, A62478, AF058700, D83209, X81839, AC026473, U67931, M26882, AL357519, AL031664, AC010083, AL391114, AC007685, AC018764, AC004898, and AA180500.</p> <p>BF971932, BF237781, AW338866, AI963716, AA573832, AA987495, AW058614, AA128438, H51921, BF732971, H27808, H94212, AA993608, AI159855, BE872759, AI469694, AI828778, W69653, AW873554, AI688311, N77573, BE898545, AW601461, AI741570, BF831400, AA160897, H49117, AI348273, H27183, AA158489, H44990, H92982, BE884960, AV709626, AA159945, BF873908, AI795832, AI795829, BE140739, AI816555, AA846337, H28378, BF810845, BF813075, AI816592, BE140751, BE140728, W69654, AI984845, AI961817, F15634, AW954779, R72015, AX011711, AF035771, AR070449, Z50150, AF004900, U82108, AC005600, AB016243, AB014460, AB026489, AB026490, AP001038, AP001732, and AP001039.</p>
HTTEC47	28	745343	1 - 1010	15 - 1024	<p>AUI13337, AL133785, AUI17996, AI798884, AUI16829, AW847640, BE142866, AW836282, AUI20388, AUI21070, AV707591, BGI70577, BF673669, BF345679, AW833146, AUI137603, AW833143, AV649129, AA683309, AW976291, AUI139654, BE144683, AI114469, BE062166, BE144698, AW836280, AW902129, BGI09731, AW813625, BE157028, BE158876, BF513132, AV731068, AV731522, AW833033, AV731034, BF746208, BF770900, AW833187, AW854788, AW832969, BF800480, BF929942, AUI22701, BF675777, AW813623, AW820037, BF830719, AW819804, AW819805, AW936057, AW819798, AW835724, BE066033, BF244129, AV731276, BF748007, AUI19706, BE009738, AW83622, BE066010, BF853047, AW820049, BF675045, AW820116, AW835725, BE066035, BF808065, BF997232, AV712125, AI246137, BGI64408, AW819881, AW820040, AW820126, BF944744, AW819806, AW845700, AW877560, AW835642, AW853349, BF754324, BE780891, AW845696, AL045241, AL046683, BF964660, AW820052, AW833180, AW817951, AW819969, BE062378, BGI04752, BF756986, AW820114,</p>

					AW819799, AW820115, AC022596, AL008633, AL359763, AL096803, AC020717, AL138702, AC024092, AC060232, AL161730, Z82211, AL022577, AL035464, AL035090, AL137251, AL133406, AL356022, AL033530, AL355390, AL121938, AC007179, Z82205, AL139395, AL049844, AL390023, AC024247, AC010175, M22334, AL080284, AL157360, AF064862, AF003535, AL034403, Z82899, AC008604, AL161804, AC048346, AC012082, AC002429, AC006479, AL030996, AK021593, AL133417, U65397, AL022144, AC004103, AC007090, AC013410, AL445143, AK024101, AL163281, AC008518, AC002072, AC010235, Z82212, AF126403, U93574, AC016751, AL135918, AC023481, AL158206, AL031054, AC022335, AL139229, AC007159, AL049562, U93572, AC003106, AL445196, AC004531, AL132821, AL135936, AC003990, Z73965, AL390022, Z81009, AC004954, AC007253, AC003091, AL033524, AL121933, AF196972, AL034427, U93563, AC005609, AC004673, AC012442, U93571, U93573, AF149422, AC004917, AC007785, AC068069, AC005993, AP001690, AL136307, AL049629, AC005739, Z81145, AL021069, AC020550, AL096862, Z79699, AC006079, AL356962, L81652, AP001671, AL133500, U93569, U93566, U93565, AC078918, AL035258, AC008456, U09116, AL117191, AF248484, AC006070, AC015971, AC016623, AC003083, AC007204, AC007214, AC005686, AC008716, AL133249, AC005384, AC007558, AL109800, M22333, AC004029, AL161905, AC007000, AL109656, AC005823, AL359846, Z95400, AF148856, U93570, U93568, AC017089, L19092, L19088, M80340, AL121825, AC003085, AC022542, AC009262, AC004748, AL121868, Z82195, AC006383, AC008394, AC008178, AC002564, AL365276, AL035397, AC002523, AF064865, AL365508, AL136442, AC012472, AL445439, AC020647, AF127577, AC006559, U69729, AC007400, AC006287, AL020992, AL353587, AC004063, AL139109, AF110324, AC005230, AC008561, AC004058, AC024094, AC007488, AL136970, Z98751, AF149774, AL031665, AL365475, U93564, M80343, AL161659, AF036235, AC009319, AC022224, AL121755, AL445306, AL031115, AL353140, AL135879, AL121790, AL357153, AL121591, AC005994, AC008550, AC078845, AC019212, AL008987, AF172277, AL133370, AL121943, AC005024, AC010461, AJ010598, AC006992, AC005915, M19503, AP002534, AF225898, AL033538, AL390035, AC004389, AL163207, AL109845, AC008436, AL359755, AL049555, AL121757, AC003098, AL049796, AC019050, AL109805, AL357507, AL136441, AL445192, AL049563, AL049828, AL109620, U93562, AC010176, AL136296, AC026888, AL050329, AP000347, AL139192, AL121900, AL163278, AC005201, and AL354777.
			1 - 428	15 - 442	AI929681, AW592729, AA648798, BG259038, AW250255, AW245532, AW651722, AW573263, AW250589, AI015535, BF031458, BF764886, AU124917, BF794818, AU125620, AU141564, AU142862, BF763514, AU125790, AU143619, AU120837, BE886545, AU125751, AI220039, BE258310, BE925039, BG005263, BF739929, AA024938, BE895457, BE383414, AA467947, BE276994, BF986402, AU125668, AA250731, BG251310, AU131885, BF219963, BF027149, T36005, BF218581, BE797690, AA211028, BE891460, BE885888, BF026383,
HOFMO90	29	746416			

HCHND34	30	762806	1 - 816	15 - 830	<p>AU143011, BG252532, AL536067, AL538416, AL518012, AA471174, BE727048, BE792076, BG121144, BF979650, W40299, BG026681, BE299425, AV749633, BE547012, BE902225, BF025777, AL040485, BF303752, BG169183, R17987, AL532385, BE538688, AL518448, AA471318, BE798701, BF307303, AA313413, BF306715, AA074578, BE122769, BF206640, Z41942, BE244339, AA181660, BF205625, AA196912, T35534, N56034, T74205, BE269688, BF304135, AA258411, BE385651, AA092564, BE156028, AF046001, AC005899, AB032196, and AB013357.</p> <p>AL538129, AL525022, BE872112, AI111183, AI114736, BE896548, BE877234, AI174851, AV705883, BE875361, BE881218, BE881076, BE880128, BE879304, AV706307, BE875412, BE874647, BE879135, BE877386, BE877647, AV729201, BE898937, BE881222, BE876531, BE875889, AV726346, BE878894, BE875858, BE876704, BE874520, AI133323, AI133348, AL513828, BE880711, AV728251, BE879909, BE876043, BE878122, BE877496, BE876719, BE874662, BE877268, AV706779, BE878178, BE879695, BE876425, AV729465, BE873343, BE891387, BE867307, BE877150, BE877004, BE874747, BE875792, BE878626, AI147501, BE870155, BE877131, AV729314, AI750078, BE876651, BE877390, BE880762, BE898750, BE873954, BE874215, BE877497, BE874926, AV693283, AV725309, BE877757, AV705995, AL048390, BE873478, AV725316, BE880690, BE878213, BE879455, BE892487, BE874003, BE876550, BE897096, BE898560, BE877488, BE880425, AV702923, BE875968, BE891700, BE874696, BE877643, BE879522, AI749163, BE876062, BE870577, BE897811, BE876098, BE877242, AV710316, AI065146, BE868548, BE896982, BE899424, BE880602, BE876884, BE868527, BE879775, BE869133, BE874445, BE875601, BE868532, BE874422, AI114553, BE878330, AI110700, AL036120, BE875438, BE869149, BE879302, BE877542, BE898986, AV726493, BE879410, AV706277, AV760899, AI114569, BE876037, AV721544, BE880237, BE876785, BE879859, AI133444, AV726351, BE879895, BE867317, BE878477, AV709557, BE877726, BE878238, BE880722, BE898371, BE880140, BE875261, BE877598, BE875955, AI133486, AA639334, AV706033, BE878677, AV708006, BE875918, BE878422, BE881146, BE868603, BE881693, BE877813, BE896992, BE895621, AV702580, AV714977, BE879413, BE877674, AI174902, BE879761, AV709615, BE875062, AV723290, BE881506, BE880977, BE875398, AV705696, BE543600, BE894635, BE880958, BE880950, AV723029, AW583759, AI114723, BE878900, BE878010, BE880947, AV721627, AA723026, BE868786, BE874402, AV707010, AI721239, BE875536, AV723395, AV702695, BE881638, BE879688, BE878173, AV659215, AV708355, BE880276, BE877271, BE876568, AI833114, AV721920, BE881057, AI110881, BE880427, AI207615, BE880442, BE875310, AI110734, AV759353, BE881359, AI114585, AV708529, BE878468, AV721831, AI609232, BG179400, AV722162, BE881594, AV722611, AV702323, BE878381, BE881411, BE878333, AI720161, BE895091, AI114699, AV706568, AV726110, BE880705, AV700257, AI733732, AW583569, AI133302, BE877616, BE894655, AI110877, AV721391, BE880758, AV706979, AV705894, BE878086, BE877479,</p>
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HAMGI86	31	785328	1 - 653	15 - 667	AL520509, BE407109, BE312514, AW294706, N23047, N28711, N23224, AW517021, AA039977, AA287636, AA286793, AW136370, AI362850, AA382819, BF684630, AW409954, AA312796, AI565859, AA312800, BF795529, AA382325, BF211504, BF184364, BF102863, BG106081, BF220088, BE279764, BE902929, BF239561, AI240475, AA229436, BE162216, AW590207, AW673504, BE538140, AA324312, U35117, U75488, A67520, UI8422, S79780, L40386, AL080206, and A67526.
HLWCN67	32	794213	1 - 677	15 - 691	AW978308, AA369775, N53897, AA807270, W95818, W95857, BF724803, AI125532, BG117266, BF968973, AU128956, U69567, BF102704, BF965471, BE770768, AV758189, BF111890, AW274041, N53318, D45459, AA301769, AA434064, BF002861, C04552, BG001662, AI569610, AA610288, AW580433, AK002172, AF090904, AB020703, AX029226, U95000, AX029228, and X64411.
HOFAC09	33	806819	1 - 854	15 - 868	BE739621, BE379183, BE617530, BG108163, BE619662, BE748774, BF570337, BE305001, BG249872, BF569120, BE612784, BE619823, BE271125, BE619946, BE617896, BE271060, BE300237, BE617937, BF966616, BE738551, BF340609, BF688981, BG257657, AV713811, BF974766, BE293496, AV717562, BE293387, BF689303, BF220284, BE748652, BE619923, AA642201, BF688590, AI174682, BE279777, AV715664, AA641148, BE299551, AV652787, AI174681, BF683366, BE747352, AA857839, BE872623, AV718269, AA640951, BG105683, BE778293, BE393602, BE546109, BE250635, BF982878, BE531162, BF570115, BG178614, BG179165, BG163531, BE531088, AV717782, BE613177, BE902527, BE271042, AL514500, AA858434, BE738219, AA837571, AV685977, AV756374, BG034916, BE740524, BE262924, BE378440, BF984231, BG029312, BE388222, AV684312, BE748508, BG256740, AV702438, BE237938, BE408065, AI817627, BG163462, AW001149, BE622882, AU128631, BG180980, AV688195, BE260549, BG255882, AI708325, AV684830, BE881395, BE788254, BE787490, BE249917, BE909118, BE305209, BE735960, BE397738, BF982126, BG256362, BF686276, BF237724, BE559874, BE266498, BF059086, BE251388, AA632140, BE787304, BE300231, BE293776, BE547987, BE439558, BG250330, AA642980, AV698344, AV715876, BE794978, BF125097, BE793931, BG256096, AV685452, BE388457, AA857476, AW149599, BE889684, BE617898, AV714051, AV688156, AV684821, BE619643, AV717638, AV717113, BE737518, BE545839, BF965676, BE748476, BE250538, BG029641, AV645505, BE736394, BF983033, BG027429, BE745157, BG180061, BG113341, BE512833, BG168282, BF696011, BG118147, BE394485, AV716748, BE728375, AI749591, BF340890, AW001147, BF184101, BE250051, AA551057, BE903863, BG114266, BE305190, AV709267, BE293782, BE549134, AV714025,

HRDEL61	34	824886	1 - 810	15 - 824	<p>BE787082, BE867785, BE293862, BE270866, BF241730, BF726447, BE293418, AL515432, BE549236, AL048321, BE250128, BE547824, BF686567, AV704265, AV689285, BE746994, BE305240, AA641228, BG122667, AL047780, AI14669, AA551126, AA663427, AI816286, AA628465, AW170178, BG180666, BG254849, AA573113, BE408039, BE256744, AW327938, BF036883, BE249983, AA573126, AA307742, BE513000, BE540263, BE781757, BE785532, BE745552, BG255393, BG248626, BF345711, BG028606, BE786948, AV685448, BE742152, BG114313, AI660952, BE788601, AI826591, BF317338, BE903912, AA146900, BE618614, BF314522, AA961746, AI246524, BG109603, AA603104, BE797431, BE730353, AL513894, BE548848, BF212989, BE614351, BG179616, BE379047, BE542702, AI660290, BF793939, AI066797, BE907279, BE260599, AI890877, BE740911, BG164827, BE300246, BE267892, BE538628, X15096, Z29530, X15267, M17885, AK001313, AF013214, AC004263, AL133163, AF044496, L28704, AB007187, AF162483, AF132973, and AF155662.</p> <p>AI696793, AW162288, AV703259, BF821897, AI358089, FI3749, AW819125, AV726885, AI963720, AV701116, AA071334, AW419262, AI821881, AI821918, AW504224, AL046409, AI745151, AA654781, BF750422, AA579179, BF821009, AI284640, BE301111, AI431434, AW410402, AA533033, AI076236, BF529327, AL120343, AW979204, AW406755, BF767028, AW753399, AA715814, AI358229, AL079645, AL037910, AA659627, BF668217, AW518220, BE138594, AL046746, AA410788, AW500684, AW021116, AW500029, AI755214, AI754105, AA581903, BE062729, AV764259, AI754567, AI613280, AW504686, AW858127, AI537538, AI623764, BG236628, AW872676, AI431303, R59567, AW504297, BE676915, AV740009, AV710482, AW673221, AI732151, AW575165, BG000961, AI133164, AW576251, AV761519, AI821714, AI792133, AI791913, AW970877, AW975049, AW157005, AA563770, AW276827, AW964231, AI733856, BF916934, BF589066, AI623423, BF678990, AL118991, BF677892, AA657835, AI620585, AI610920, BE049229, AI049676, AV735495, AA610491, AI281881, AW023111, BF805088, AI783911, AV761745, AI270117, AI636627, BG036665, AI821785, N23260, AW089589, AI457397, AI028510, AA878149, AW501806, AA130647, AA603323, AI054333, AV710066, AV742057, BF915247, AI963221, AV763583, AV761810, AW271917, AW833862, AW089322, AI017251, AI251034, BE300580, BF942454, AL134330, AW193265, BE139139, AW081194, AW499745, AI732764, AC002350, Z85986, AL136984, AL035701, AP000557, AL157877, U85195, AF047825, AC004983, AE000658, AC007957, L77570, AC004536, AC005899, AC007850, AC007537, AL136443, AC011449, AL137070, AL139039, AL133551, AC004985, AL121871, AL031053, AC005522, AL078614, AC023490, AC010463, AC008924, AL035071, AC008821, AC016655, AC007620, AL136097, AC008123, AC025588, AL354696, AC005086, AL137139, AJ239027, AL138828, AC008745, AC016898, AC055740, AC006057, AC004804, Z72521, AC006368, AC011464, AL133163, AL136317, AC004253, AL080285, AC011510, AL136296, AC010977, AC020910, AC010419, AL109804, AP000311, AC010087, X62357, AC018755, AL445195, AC006285, AL365505, AL357560,</p>
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HDPOR60	35	828176	1 - 3339	15 - 3353	BE907538, BE250250, BF3111047, BE906254, AV726530, BE304645, BF525388, AW959258, AW954291, BG118078, AI051611, BF916882, BE719457, AW966732, BF732249, BE719459, AW390157, AA150165, BF923015, AI928260, BE779329, AA457484, BE818400, AI188780, AI524627, BF329818, AA609346, AI184768, BF733484, AI348486, BE671307, AI598015, BE818415, BE764192, BE717662, BF733491, BF733492, AI674848, BF886247, BF886242, AW197044, BF888665, BF888510, AI369052, BF888666, AA984504, BF513927, BF888512, N58740, BF888662, BF888671, BF812194, H27264, BF888524, BF377972, AW080528, AA458747, BF371802, BF377969, BF093530, BF888530, BF376487, AW025603, BF885116, BF766670, AI283519, BF888682, N90132, BF081241, BF093542, BF872063, BF377968, BE818399, BF093531, BE872720, BF093535, AA652251, W16733, BF093536, Z43110, BF093539, BF934232, AW294491, BF884943, BF093532, BF093543, AA813169, AI905629, AA229779, H14451, BG012148, AI692605, R50198, AI126253, BF093546, AA865539, AA341212, BF885117, R83103, BF089975, BE938102, AI886490, AA385992, BF081230, AI685596, H70564, BF762747, H50721, AW087793, BF352676, AI364918, BG013986,

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	36	828574	1 - 1032	15 - 1046	AK026408, AF119337, AR013797, AF113019, AL162083, AF119878, AR083266, S36676, AF097996, AL080159, AB041801, AB050410, AK000137, AL137461, AB047941, AF210052, AK025209, AF110640, AF120268, AK027213, AK026746, AK025632, AJ299431, AL122100, AK000250, AB050431, U87620, I09499, AF130082, AL050146, AF061981, U80742, S79832, AF106657, AL050393, AF022363, I89934, AL133560, AL080086, X87582, AL110196, A07588, AL133645, AL117578, AF130077, AF113676, AK027137, AF102578, AF106862, AK000647, AF130059, AK026865, AK027105, AL133067, AF230496, A65341, AL117438, AL050277, AL137478, X83544, AB050418, AF227198, AK025084, I46765, AK027144, AL1353940, AK000391, E01614, E13364, AB047904, AK000718, L19437, AF119336, and AF090943.
HPRTS71	36	828574	1 - 1032	15 - 1046	AW118056, AI8000662, AI589171, BF591232, AI188335, AW082251, AI818095, AW021236, AW591559, AA648866, AW246660, BG230460, AW452998, AI083735, AW835356, AI167977, AW468639, BG109889, AI470164, AV651830, AI334390, BE673379, AA741201, AL523450, BE070373, BE070459, AA643779, BE070441, BE548231, BE696414, AI248596, AW062368, BF055036, BF111561, AA614258, AL037459, T92093, AI420092, BF741961, N79460, AW393612, T92929, AA649698, AA716590, T93045, T29513, N98655, BF089688, T98007, R28667, AW974688, AI470059, BG179958, AI520746, T92007, AW514438, AI565207, AI252942, AI014682, AI276530, AA707158, AW580299, AA847513, BF803888, AI224129, AV747633, AA452013, AF305057, D00596, X89602, and X67098.
HOHBI90	37	828862	1 - 405	15 - 419	AA021223, BE548133, AL045143, II5526, II5525, M76125, AC011510, X57019, X59560, X63535, and X66030.
HOHAL47	38	828872	1 - 907	15 - 921	AUI32881, BF220328, R87908, BE613810, AW250257, AA931266, AW015928, BF095373, BF909602, BF095352, AW502696, BF796996, AA370819, AW502753, BE327008, N49168, AI800258, AI738786, AI651019, BF431451, BF891293, AI341119, BE464154, R87900, R87888, BF761409, BF761414, BF761411, BE672137, BF766414, BF761395, BE551754, AB020866, L27841, and AB029291.
HYASE58	39	829298	1 - 820	15 - 834	AL520115, AL520114, BG249568, BE858532, AI719186, AL524961, AA978354, AI963126, AW168149, AI016474, BE464809, BE541556, AW274265, AA126722, AA948354, N95214, AA779559, AI143841, AA988766, BF109578, AI032155, AI057145, AA868690, AI123988, AA862955, AA531469, AA565025, AI040746, BE315358, W58681, AA883150, AW973071, F27739, AW469738, W25247, AA677158, AA136191, R72558, AA137218, BE774145, BG163522, AW804292, T85571, R06411, BE559994, AI369527, R06410, BE931292, W58682, T85572, BF984740, AI202246, BE771601, AW204406, T98604, T98605, AA126819, BF804866, M29971, E02953, X54228, M60761, M31767, M84524, S61804, M76704, X54862, X65081, AL355531, S52068, S52071, S52289, AR040785, and X61657.
HKA AH95	40	829958	1 - 569	15 - 583	BF968527, BF972443, BE888293, BF245922, AI432365, BF984449, AI376939, AW959079, BF111350, AI809862, AW967166, AI708626, AA743821, BE274422, AA316016, W31195,

					<p>AI800592, AI475502, AI693918, AI709386, AA788752, AA554691, AI077974, AU150242, AA082177, AA308664, AI129002, AW963595, AA815094, AA064826, AA826696, BF109200, AI830845, AW959077, BF687634, BE879836, AA133252, AA757359, AA064769, AA129757, AA187005, AA527421, AA760765, AI300800, AA650536, AA100960, AA083271, AI185271, AI015127, AA805805, D53222, AI244634, AA873340, W38586, AA327243, AA357610, AW151779, AW006731, AW592333, AA532279, AA372493, N90200, BF326039, AI434196, BE168715, AW804095, AA303407, AA303583, D30971, AI023237, AA188378, AA876652, AI074752, AA721457, AI880398, AA935370, AA079099, AA313040, AA226394, BF326038, AA091473, AA045674, AA302617, BE815031, AA045675, AW117957, BF326043, AA083230, AA249292, AA385455, BE004885, AA216127, AA523135, AA079126, AA724213, AA766192, AA902562, AV759831, AA491262, AL110170, D17041, AA527902, AA632078, and AA769476.</p>
HTTIQ02	41	829981	1 - 440	15 - 454	<p>AU133091, AU142098, AU141602, AU134034, AU135799, AU141415, AU136549, AU141554, AL520149, AU141624, BF309998, N44941, AA165467, BG164969, BF305751, AA370928, AI025054, BE544595, BE297897, BF203543, AL047272, AA490707, AW998147, AW998144, BE719597, AV650018, L19871, U19118, and M63282.</p>
HWACG91	42	830195	1 - 647	15 - 661	<p>BG033793, BG255945, BG259666, BE730050, BE794184, BE280411, BE262457, BE407137, BF974510, BG260129, BE387574, BE250058, BE729393, BE900244, BE280432, BF317365, BF975884, BG255124, BE384164, BE875157, BE275535, BF697620, BE249873, BE729424, BG104941, BF528476, BG178885, BE389393, BE742299, AA160739, BE279276, BE730823, BE730234, BF696116, AI905415, BG169584, BG248765, BE409699, BE409459, BE383471, BE279295, BE514728, AI693883, AI906409, BE733527, AA133328, BE734917, BE747004, BE778282, BG120073, BG116573, AI906399, BG252353, BG250627, BG115053, BF205427, AA932527, BF974800, BF976607, BE275617, BE747869, BE258222, BE899354, BF667612, BE732117, BE394529, BE019949, BE255854, BF663000, BG115598, BE270894, BE877328, BE894791, BE742367, BF981923, BG025205, BE270877, BE313842, BE277239, AW246075, BE731739, BF689778, BE266619, BG122027, BE275677, AW327437, BE958080, BE293564, BE741359, BE279606, BE262807, BE731616, BE278518, BE797742, BE280931, AI906381, BE259001, BE620197, BF342810, BE278592, BE269494, BG033349, BE799713, BE252649, BE790350, AA069850, BE744820, BE731628, BE958554, W28216, BE269344, AW246351, BF665331, BE409170, BF346422, BG025476, BE892710, BE251197, BE729414, BE395317, BE747019, BE379494, BE535406, BF980658, BF309487, BE910196, BE795220, BG260707, BG255740, BF310723, BE265360, BE297749, BF311424, BE409537, BG165401, AA186725, BG034975, BF310637, BE744823, BF339822, BE883169, AW675050, BE884838, BE275911, BE394260, AI905506, BE736798, AA131028, BE296169, BE385509, BE735183, BE273644, AA160637, AA157966, BF796949, BG171791, BF103552, BE278910, BE735411, BG260083, BE895233, BF206952, BE264220, BG255060, AA313667, AA076309, BF149164, BF797136,</p>

					<p>AI809346, BF794443, BF309985, BE793349, BG248853, AA159110, AA190534, BE262091, BF128662, BE536828, BE251454, BE263943, AW662648, AL038584, BG255561, BF696737, BE792806, BF313073, BE742815, AA101958, BF792436, AI906370, BE206810, BE889820, BE898859, BG165862, BF315593, BE255244, AA113902, BG122753, BE897628, BE727594, AI218219, BE746344, BF055113, BF725362, AA587341, BE382571, BE277151, BE262004, W74583, BF725096, BF315746, BE388410, BG117808, BF304116, BE274326, BE728690, BG116304, BF315671, BE875140, BF983277, BF308437, BE875834, AA158902, AA155696, BE733144, BE537657, BE293648, AA158943, BE875741, BG120928, BE410167, BE391803, BE251603, BE729093, H69946, BF663924, BE393117, BF972713, AA182917, BE780890, BE394391, BG031646, BF797457, BE315191, AA043715, AA299820, AA364873, BF985994, BG122761, BE253108, AF275719, AX047377, AL136543, AK025370, J04988, AL139392, S45392, AC006226, AL353581, AF288819, and AC013410.</p>
HUFBX52	43	830497	1 - 1969	15 - 1983	<p>AL513910, BF338363, AI799888, BE392997, AW316671, BE044614, AL042665, AA114835, BE394176, BE857118, AA114976, W51953, AV702013, AI972232, BG025156, BE673213, W52502, AW205785, AW137401, BF879476, AI498690, BE504635, AI870560, F33285, AI696138, BF847455, BF847461, H42144, AW797536, AW580466, AI383137, BE504647, BF194734, AW291200, AI567040, T58430, AV707626, AV705123, AV702887, AV705196, T58462, BG104539, T29553, AV705977, AI972231, AI951152, AA593693, AW873877, T47089, AA393219, AA036671, N77388, AV706493, BF093800, AI686156, AV703987, AA575857, AW959494, AV702830, AV701517, H42145, R00971, T47088, AA063592, D11534, R00972, BF826969, BF345006, BF766206, BE840120, BF378651, N52428, AV707224, C01052, U24488, M25813, X73959, Y11915, X87243, AL049547, AF077974, S38953, U89337, AF019413, X71937, L26263, AB010266, AC006289, AF030001, AF049850, AB015623, M83939, U24489, AF086641, M12792, M12793, M17252, M26856, M28548, M26857, M13936, M13935, M11267, M12918, M64933, AB039881, U56853, U56854, K03234, M92836, and M15009.</p>
HWLJE49	44	831453	1 - 510	15 - 524	<p>BG251415, BG027650, AV716313, BE744852, BG168126, BE875004, AV712837, BE363257, BF183014, BG113939, AV701796, BG260019, BF244649, BF974779, BE740291, BG114363, BG035325, BG027799, BG169309, AV722365, AV712753, AI887549, BG027575, AI076353, BF725392, BG167147, BF663267, BG059083, BE300764, BE742593, AA806402, AI682046, BG027579, BG255168, BE906641, AI188649, BF967533, BE513190, BF182834, BG180632, BG113207, AI144531, AI149488, BF345318, BE675790, BG026111, AL048205, BE207355, AW277103, AI612881, AI761676, AI299022, AI270732, AA308274, BF575148, BE379881, AW005575, BE675232, BE729684, AI302970, BF684952, BE259873, AI748792, AI832372, AI342462, BG255930, BE728928, AW304345, AI917533, BE388883, AA308142, AI270352, AA315030, AA314014, AI720893, BE208370, AA181838, AI370898, AA314940, AI735477, AA316359, BE909454, AA582161, AA313264, AV705734, AA316330, AW338556,</p>

					AL050146, AL133606, AX019229, AK026784, AK025772, AF314091, AL122093, E03348, AF116649, AL133093, AK025958, AF219137, AL080137, AF207829, AB051158, AL133560, AK027204, AL137557, AK000618, AL096744, AB047904, AK025092, AF242189, X82434, AF146568, AK027096, AL137283, E07361, AL133080, AF079765, AK026592, AL137459, AL359941, AL359618, AB048954, AF125948, AK000137, AL353940, X63574, AL110225, AL117394, AK000652, AF017437, AK026533, AL049300, E02349, AK026452, AF116682, AK026542, AK026927, AR087170, AF177401, AL050138, AK000445, AK024538, AK026583, AF119909, U91329, A65341, AF225424, E07108, AR011880, AK026504, AK026647, A08910, A77033, A77035, AL359615, AF061943, AK026086, AK000323, AK000718, AK026532, AK026534, AK027113, AK026959, AK025491, AL050024, AB052191, A08912, AL049382, AL133113, AL049464, AL117583, AF183393, AJ238278, AF260566, AF097996, AK025967, AL117585, AF067728, AX042059, AB052200, AF271350, I03321, AL117435, AF175983, AK025414, AL049430, A08909, AF130077, and AF118094.
HLQBT44	45	832454	1 - 735	15 - 749	AA745837, AI554448, AI830118, AA928341, AA669073, AA630270, AW304776, AI418823, AA630539, AA614639, AA701987, AA507015, AA775672, AA577574, AA947337, AA425865, AA740316, AI925815, AA872373, AA481869, AI287247, AW170694, AA058866, AI141303, AI686727, AA482053, AA456568, AI984134, AA481821, AI251811, AA779177, AA496675, AA938571, AA894451, AI052452, N63977, AA524693, T57094, AI357992, BF594112, AA523604, AI288847, R92183, AI539613, AW194037, AI689207, AA455766, AW129939, AA410742, AI278744, AW805186, BG011966, AW071224, T68990, AA425994, T71879, TS8711, AA775671, BG010690, AA235744, H93778, AI631122, AA668735, BF447423, AI933935, AA034382, AW801283, AW801602, AA627657, AA057664, AA551804, AI918451, T71878, T50658, AV692045, AA034383, T72829, C21135, AW515583, AI114853, AI245066, T72828, BF941121, N80768, BG010676, AI141304, AW393623, AA477973, AI803211, BG013596, AI494106, T25929, AW004686, AI500081, BF908767, AW842027, BF909560, BF868853, BF908693, BF909563, BF911325, BF868849, BF908765, BF801119, BF848926, AW243946, BE173882, AW878618, BE001388, BE079012, BF890845, BE073329, BF942940, BF990699, AA400639, AW843089, AW833203, BE166207, AI708714, BE676937, BE085445, AA810087, BF908691, AI039389, BE737951, BF908768, BF911435, BF909425, BF810304, BF909434, BF909438, BF733544, BF848896, AA577947, BF845946, AA559987, BE079182, BF896106, BE079011, AW898529, BF926033, BF874446, BF874408, BF987376, AA577987, AW884119, BF868852, BE146291, AA578162, BG002961, AW176716, BE001389, BF909558, BF908760, AA559135, BF875608, AA558407, BF943834, BF943838, AA504031, BG002880, AW797672, AW014901, BF875343, BF807164, BF934749, BE094775, BE072043, BF905359, AW898530, BF943835, BF878034, AW840660, BF990659, BG002963, BG002966, AW875187, BF762630, BE083383, AW878617, BE085444, BE828029, BE077159, BE075548, BG002874, BF990679, BG002969, BE079010, BF846180, BE094456,

HSLGG58	46	833088	1 - 1532	15 - 1546	<p>BF911326, AW839030, BE183543, BE148811, BF838588, BF875612, AW793897, BF874402, BE075582, BF942943, AW869494, BF942939, AW796714, AW850761, BE698162, BF899584, BG003356, BF990667, BE071701, BF755593, AW793842, BG002960, AW850608, BE069882, AW876913, AW899524, BE152211, BF909561, AI094378, BF990669, BG002976, AA572780, BF987365, AW842761, BF807161, H20370, AW899525, AW905142, AW878382, AW860057, AI039720, AW603507, AW900160, AW860058, AW855931, H46872, AW850175, AW842714, BF874887, BE094492, BF130497, BE048291, BF876370, BF875598, BE280118, BG002875, BG002962, BF808094, BF805281, BE149153, AF019413, X04481, L09708, M15082, AL139099, AL353733, X04252, X01037, X04248, AB021174, X04249, X04250, M20910, V00477, X04251, X04254, AC055740, AC019176, A75246, X04211, AL132988, AL136303, AL133230, AL357153, AF131216, AL135749, AL031295, X62364, AF317298, AC002464, AC004019, AF109906, AF068289, AC012005, AL078602, AF113677, AR083266, AK000432, AK027160, AL137478, AK026504, AL162008, AF067728, AX042059, AK026542, AL442082, I89947, AF116631, A08916, AF155148, AF119909, AR011880, AF130055, AL137550, AL353956, I48978, A08910, AK026947, AF130105, U42766, AL122049, AF119875, U58996, AX020124, AL162083, Y11254, AL049314, AK026784, AL117457, AL122118, AF090901, AL050138, AB051158, AK026592, AF130099, I66342, A08913, S61953, AL049466, AF090934, U67958, AL122050, AB048974, AF119865, AF113690, AK027164, AK025798, AL359601, AL137294, AK024538, I89931, AX019230, AL117435, U35846, AF032666, AF087943, AF210052, X84990, AL117585, AF061795, AF151685, AL137533, AB052191, AL157479, AF017152, AF090900, R28997, and AA640968.</p> <p>AL529745, AL521111, AL521110, AL530765, BG035239, BE741863, BE868745, BE783786, BG115436, BE743770, BF980935, BF032529, AA927626, BG170791, AI360106, BE792111, AI859705, BF515765, AL530323, AI696973, BE673724, BG059565, AI889305, AW194003, AI435237, AI015554, AI425058, AI653782, AI674150, AI292242, AW008174, AA443658, AI052216, AI689404, AW302350, AA682485, AI039198, AA069797, BG055892, BE740312, AA929022, AI559492, BF966723, AA507307, R89566, AA702532, BG055961, AI355925, AA436762, BF083167, BF083176, AW304693, BG152337, BG055803, AA447045, AV743176, R8883, AA069844, AW015302, N62841, AA340462, BF917627, HI2262, AA700417, AI866372, BG222934, AA554984, BG036915, AW075240, AI364688, N77748, AA937871, AA507304, AV735802, AW263377, AW960326, BF038245, BF311363, AA770456, AA657774, AI904488, BF530542, AA327748, AW390282, R85655, AA609069, AW188781, BF885085, AL036980, BG165051, AW302992, AW673679, AW673635, AW268067, BE972180, BE964661, AV706744, BG105895, BG163618, AW946806, BG122481, BF343568, BG151247, AI336633, AI829327, BF764538, BF339594, AI349957, AW150511, BF816037, BG257535, BE886728, AI340627, AI433384, AI357316, AA830821, AW302965, AI620284, BE965121, BF884999, BE047952, AI500662, AI783504, AL036396, AA640779, BF344691,</p>
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AI582871, AI680498, BF338002, AA572758, BF904180, AI623682, AI340519, AW074869, AW827206, AI537677, BE964497, BF970449, AL038605, BE905749, AA420722, AL048656, AI538885, AW269097, BE963838, BE964614, AI306613, BE965192, BF793370, AI336495, AW813006, AW169653, AI801325, BF885000, AW074993, BG113299, AI349614, AW071380, BF822127, BF826445, AW238730, AW827276, BE965481, AW151138, AL041220, AI349256, AI312152, AI312428, BE968711, BF924882, AW075084, BF343363, AV760102, AI349937, AI349645, AW105601, AI49512, AW834325, AI334884, AI307543, AW268253, AI307734, AI307708, AI348917, AI312325, AW089179, BE966011, BE048087, AI468872, AI567637, BE965067, AI307520, AI364788, BE789764, AI348897, AW081255, AI471361, AV757639, AV682849, BE964876, AI567385, AI269862, BF038134, BG112879, AI345005, BG256090, AL079963, BF812960, AI272116, BG109270, BE047852, BF812938, AI274759, BF814541, AW021373, AI874166, BF970652, AF096304, AF023676, AF096303, AF048704, AK024538, AL122050, I89947, I33392, A08916, AI2297, I48978, AB041801, A08913, AK026542, AK000391, AF217991, AL359596, L31396, AK026629, AF116639, AK026086, AF116644, A08910, AF119894, AF118064, AF118070, AK026744, AL157431, L31397, I89931, AL049300, AL137648, AR087170, A08909, AF119871, AL122093, AL080127, AL110221, X96540, AB049892, Y11254, AI242859, AF130059, AB047615, AL137459, AL137550, E07108, AF113691, AL137526, AI8777, AF130075, AK026600, U00763, AF056191, AL049430, AL390154, AF118090, AK025798, AK026592, AL122045, AF130077, AF125949, AL133077, AF314091, X70685, AF175983, AL049464, AF097996, AF119875, AL133081, AF242189, AK025254, AL110225, AL117394, AL133113, X98834, AK000718, I48979, AL080126, AB048964, AF116610, AF218014, AL162006, AF166267, S78214, AF090896, AL137271, AL137556, AL133557, AF017152, AL137521, AF091084, AL137429, AF130066, AF017437, AF090943, A65340, AX046603, AK026353, AL049314, E02349, AR059958, AK026452, AB049758, AL050146, AF130110, AF207829, X63574, U72620, AL137463, AK025967, AF113699, AK026947, AX014095, AK000083, AK025092, AL117585, AF199027, AL442072, AK025484, AF116682, AL133560, AF078844, AF116691, AX019230, AL162083, AK000618, Y16645, AL137557, AL133093, AB048953, AL110196, AL133080, AK026583, A90832, AF119909, AK000647, AK027204, AJ238278, AF090903, AL050149, AL050108, AL353940, U42766, AL389935, AF113690, AK026855, AK026522, AK027213, AK027200, AF130087, AF125948, AF113676, AF138861, AF158248, A08912, U80742, AL133606, AL122123, AF061943, AL137283, AK024992, AL049466, AL049283, AK000432, AF111851, AK026741, AK000212, AB047904, AF090900, AL117457, AX006092, AX019229, AF116631, AB034701, AR038854, AK027102, Y10655, AF146568, AL080159, AF113019, X82434, AR083266, AF113677, AF118094, I09360, AF067728, AX042059, A08908, AF130054, X84990, AK000753, AF130099, AL359615, AL133568, AK000486, AL050393, AL117435, AL110222, AL133565, AL389982, AK026532, AX026824, AX026823,					
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HCHBQ33	47	840756	1 - 507	15 - 521	BF983424, BF211760, AW157053, BF684202, AW162417, AW162988, AW162603, BF026414, AW157332, BF683534, BF976126, BG032643, BG163354, AW156922, BF974967, BF975973, BF685471, BF969890, AI680129, BG249316, AW157397, BF203227, AI283030, BF797083, BG113896, BG025992, BF969919, BG027552, BF794777, BG029512, BE409260, BF965750, BF338609, BF972865, BF972470, BG106216, BF310371, AI625563, BE314799, AI499186, AW157806, BG142254, BF316903, BF3433200, BG033251, AV752124, BF796091, BF315655, AU119393, AI887440, BE794493, AW276357, BF310677, BE786311, BG165212, BF969189, AA314895, BG024853, BE777933, AU126898, BF726955, BF342583, AI090099, AU126739, BG253776, AW029096, F24940, BG057843, AW118506, BG110794, AI928061, BE742652, BF727358, AW160561, BF974254, BF797276, BG059640, AW966494, BF337295, AA583793, AI475867, BF313677, BG142263, BE792984, BE019795, BG104756, BE900127, BE313100, BE732159, BE560126, BE897114, BE272977, BE275883, BE383590, BE409100, BE886687, AU149662, BE293298, BE559675, BE513645, BF037214, BE798509, BE798984, BE874485, BG032309, BF680826, D52392, BE250986, BE253387, BE313181, AA845270, BE314620, BF034696, BE793979, BE882443, BE797123, BF237943, BE736165, BE276565, AA308667, BE790613, BG056375, BE793578, BE793105, BE293961, BE278732, AW328693, BE254190, BE256721, BE909905, AW768638, BF125047, BE795518, BE255031, BE383224, BE789157, BG142170, BE907032, BE620944, BE878341, BE797140, BE276635, BG034095, BE878240, BE909385, AI913962, BE542091, AI735731, AA714332, AA316221, BE901680, BE540321, BF700921, AA524000, BF127837, AA947503, BE254299, AI126588, AW021371, BF026845, BE393303, BF038496, BE888490, AW327273, BE735597, BE561847, AI631371, BE906540, AV689462, BF211684, AW966489, AW162175, BE409686, AW966488, AI523924, AW163020, BE901983, AI766436, BE394377, BE260396, BE397339, AA912488, N54519, BE563380, AW163636, AA514900, AA088705, AI718867, BE048153, BG113893, AA506094, AA159790, BF125341, AW161303, AW769068, AA115703, AA988424, AI198534, AA112416, AA714522, AI581865, BE795020, AW163458, AA507481, AA501840, BE313575, AI469509, AI797529, AA192753, AA720655, BE563655, AI200353, BE887791, AA577162, BG142255, AW515839, AI863295, AA158148, AW161036, BE559641, AI270389, AA603073, AA989575, BF210694, AI564456, AI453217, AA846028, AI925625, BE621765, AI817585, AA515423, N76221, AV745134, AW083236, AA313883, AA187267, F24511, F27741, F26359, AA776904, AA316420, AA181237, AW615576, AA157076, AI287833, AA835523, AA493670, AA846115, AI922586, F31236, AX015385, E06004, E01533, AC007969,